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COMMISSION ON MILK STANDARDS.

REPORT OF THE NATIONAL COMMISSION ON MILK STANDARDS OF THE NEW YORK MILK COMMITTEE. 1920.

The National Commission on Milk Standards of the New York Milk Committee met in their annual convention in New York City at the New York Academy of Medicine on May 20 and 21, 1920. The members present were as follows:

John F. Anderson, M. D.
W. A. Evans, M. D.
Charles J. Hastings, M. D.
J. N. Hurty, M. D.
E. C. Levy, M. D.
Prof. E. V. McCollum.
Charles E. North, M. D.
J. S. Neff, M. D.
William H. Park, M. D.

M. P. Ravenel, M. D.
Milton J. Rosenau, M. D.
Prof. H. C. Sherman.
Prof. L. L. Van Slyke.
Chester H. Wells.
Wm. C. Woodward, M. D
Dr. Redfield, representing Dr
Alsberg.

The program included the consideration of pasteurization, clarification, dried milk, vitamines, butter substitutes, ice cream, campaign for establishment of milk standards, bacterial testing of milk, education of public to increase the use of milk, school lunches and milk, a service bureau, milking machines, comparative cost of milk with other foods, dairy inspection, standardized and adjusted milk, reconstructed milk, etc. Many of these subjects were presented in the form of progress reports, their study and consideration to be continued for another year. The subjects on which resolutions were unanimously passed and released for publication are as follows.

(1) Pasteurization.

Experience with the pasteurization of milk by the use of the time and temperature recommended by this commission has justified in every way the selection of the time and temperature which were recommended, and the commission wishes, therefore, to confirm the original report on this subject by stating that so far as the commis-

¹ Previous reports were published in the Public Health Reports, May 10, 1912, pp. 673-700, Reprint No. 78; Aug. 22, 1913, pp. 1733-1756, Reprint No. 141; and Feb. 16, 1917, pp. 271-296, Reprint No. 386. Resolutions passed at the meeting held in Chicago, Ill., Dec. 18, 1918, were published in the Public Health Reports Jan. 17, 1919, pp. 69-71.

sion is aware, there is no reason why it should change the recommendation originally made regarding the proper time and temperature of pasteurization of milk. The recommendation originally made and published in the Public Health Reports, February 16, 1917, was as follows:

- (a) That pasteurization of milk should be between the limits of 140° F. and 155° F. At 140° F. the minimum exposure should be 20 minutes. For every degree above 140° F, the time may be reduced by 1 minute. In no case should the exposure be for less than 5 minutes.
- (b) In order to allow a margin of safety under commercial conditions, the commission recommends that the minimum temperature during the period of holding should be made 145° F., and the holding time 30 minutes.

(2) Scurvy.

In 1917 the commission adopted a resolution to the effect that in its opinion the pasteurization of milk at 145° F. for 30 minutes destroys none of its food constituents. Inquiry conducted by the New York City health department into the records of the infant milk depots, where sometimes over 25,000 infants were fed daily on pasteurized milk, appears to bear out this assumption. Since that time there has been much careful research on the relation of scurvy to the lack of a protective substance in the food. It has been demonstrated to the satisfaction of all of the most eminent authorities in nutrition that scurvy is due to the lack of a specific dietary factor which is easily destroyed by heating, and that milk which has been pasteurized has lost, in part at least, its protective action against this disease.

It has likewise been demonstrated that there may be pronounced differences in the value of fresh, unheated milks in their antiscorbutic value, depending on the nature of the diet of the cow or lactating woman. The antiscorbutic substance is found abundantly only in fresh fruits, vegetables, green grass, and other forage. Cooked foods, with certain exceptions, such as tomatoes, are of little value, and the milk of a mother whose diet consists largely of cooked or dried or preserved foods will not protect her infant against this disease unless some substance rich in antiscorbutic properties be included. The milk of cows will be more effective as an antiscorbutic food when they are fed green foods.

In view of these new discoveries concerning the possibility of the variation of the nutritive value of milks, to some extent, with the diet and the seasons, and in view of the possible reduction of the food value of milk with respect to the antiscorbutic factor in the process of pasteurization, the commission recommends that orange juice or tomato juice or other antiscorbutic food be added to the diet of infants, especially those artificially fed. The commission wishes also to reaffirm its advocacy of the adoption of pasteurization by municipalities as a public health measure.

(3) Infected Udders.

There is occasional danger to human beings from infected udders of dairy cows when the udder infection is due to pathogenic bacteria of human origin. The danger from udder infection when the bacteria are of bovine origin has not yet been determined and is uncertain, with the exception of infections from bovine tuberculosis, which are known to be dangerous to human beings. Every effort should be made to exclude udder infections from dairy herds. Pasteurization is a protection because it destroys the bacteria of udder infections in milk.

(4) Service Bureau.

The commission recommends the establishment of a service bureau by the New York Milk Committee. This bureau should send a copy of the commission's reports to each governor, each State and Provincial health department, each State and Provincial food bureau, each mayor of cities of more than 10,000 inhabitants, and to each health officer of such cities.

The bureau should offer its services in -

 (a) the drawing of legislative measures relative to milk and milk products;

(b) furnishing literature and speakers to promote the adoption of

such legislation.

The service bureau should get track of agitation having milk legislation in view throughout the country, through the services of clipping bureaus, correspondence, and such other measures as are deemed wise.

The service bureau should cooperate with the Surgeon General of the United States Public Health Service and appropriate bureaus of the Department of Agriculture, the Children's Bureau, and other agencies.

Resolved, That the service bureau write each State health and education agency (boards of health, superintendents of education, etc.), suggesting that it provide wall charts, slogans, pictures, etc., to hang in each school, setting forth the need and advantage of a more abundant use of good milk as a food for children and adults;

That in this letter there should be a suggestion that such pictures, diagrams, charts, and slogans be developed in the schools of the

State, through school and individual competitions.

(5) Good milk and the school lunch movement.

The commission, in connection with the school lunch movement, recommended that every effort be made to emphasize the importance of good milk in the diet to promote its increased use in all systems of school feeding.

(6) Dried Milks.

The commission adopted the following report on the subject of dried and remade milks:

Whereas the commission is fully convirced that an increased consumption of milk in its various forms would be highly advantageous to the public health; and

Whereas the production and sale of dried and remade milk tends

to increase, stabilize, and conserve the milk supply; and

Whereas all evidence now available favors the view that properly prepared dried milk may be regarded as of nutritional value equal to milk of light grade and that the vitamine content of dried milk and pasteurized milk is substantially the same: Therefore be it

Resolved, That the commission urge upon the health and food control officials a liberal attitude such as shall encourage and not

hamper the dried milk industry.

The commission desires to reaffirm the resolution adopted by the commission at the Chicago meeting in 1918, regarding the favorable attitude to be taken toward the manufacture and sale of dried or remade milk. It is recognized, however, that all products will not be of the same grade and that grading will be necessary.

In our judgment, the sanitary requirements to be adopted for dried and remade milk, as far as applicable, should be the same as

those for liquid milk of like grade.

Milk powder which contains less than 25 per cent of its solids in the form of milk fat should be labeled skimmed or partly skimmed: Milk powder which contains less than 3 per cent of fats in its

solids should be labeled skimmed;

Those containing between 3 and 25 per cent of milk fat in their solids should be labeled partly skimmed.

The term milk should be denied to any product in which the milk fat has been wholly or partly substituted by any other fat.

We shall have to defer other specific recommendations as to the grading of dried milk, but recommend the study of grading. The following suggestions are made as to labeling:

First, that the label show the quality of milk before it is dried, in

terms of our present grades and standards;

Second, that the label show the approximate time and temperature

of heating

Third, that if anything has been added to the milk in the process of manufacture or otherwise, its presence and the name and amount of the substance added should be stated on the label;

Fourth, packages of dried milk should be labeled with the date of manufacture.

SANITARY DISPOSAL OF SEWAGE THROUGH A SEPTIC TANK.

A System of Simple Construction and Inexpensive Operation for Isolated Dwellings.

By H. R. CROHURST, Associate Samtary Engineer, United States Fublic Health Service.

In view of the frequent requests for a detailed description of practicable and economical methods of sewage disposal for the isolated home or the small group of homes supplied with running water and provided with toilet, sink, and bath fixtures, the following data are presented.²

In 1910, or about that time, the State board of health of New Hampshire was called upon to devise a practicable and sanitary method of sewage disposal for single residences, summer cottages, and hotels. As a result there has been developed by Robert Fletcher, D. Sc., C. E., president of the State board of health, the so-called "Free-flowing, tight, sewage tank," which, during the past 10 years, has been in successful operation, under varying conditions, in several hundred locations in that State.

The design, as now recommended by the State board, consists of a rectangular tank, built of concrete, without baffles, with a relatively tight-fitting cover and without ventilation. A space of from 12 to 15 inches is provided between the under side of the cover and the surface of the sewage. The cover is made to fit as tightly as possible, in order that the gas given off during the septic action may develop a slight pressure in the dead space above the sewage and serve to exclude outside air. The inlet and outlet pipes of the tank are provided with elbows, which turn downward into the sewage and end well below the surface. Experience in New Hampshire has shown that a capacity of 4 cubic feet (30 gallons) should be allowed for each person contributing to the tank.

The smallest tank recommended is 6 feet long, $3\frac{1}{2}$ feet wide, and has a depth of sewage of $4\frac{1}{2}$ feet. Such a tank has a capacity of about 94 cubic feet (excluding dead space above sewage) and would effectively serve 20 persons. It is not deemed advisable to build a tank smaller than this. For larger installations the following sizes are recommended:

¹ The material in this article has been obtained from the special bulletin, "Free-flowing, Tight, Septic Tanks," by Robert Fletcher, D. Sc., C. E., published by the State Board of Health of New Hampshire; from information obtained from Mr. D. M. Tefft, health officer of Sugar Hill, N. H., who has had II years' experience in the construction and operation of tanks of this type; and from an inspection made by the writer, of tanks in operation at Chremont and Sugar Hill, N. H.

² EDITORIAL NOTE.—The simple and inexpensive method of sewage disposal here described has operated successfully over a period of several years. The design of the tank and the methods of effluent disposal are similar to those described in Public Health Builetin No. 101, "Studies of Methods for the Treatment and Disposal of Sewage," by Earle B. Phelps, Leslie C. Frank, and C. P. Rhynus. This bulletin contains an extensive discussion of various methods of sewage disposal for single houses and small communities, applicable to any part of the country.

Number of persons,	Length.	Width.	Depth of sewage.
One family (and up to 20 persons)	Feet. 6 8 9 11 14 24	Feet, 3.5 4.5 5 6 8	Feet. 4.5 5 5 5 7

The tanks should be located in the yard, as near the house as practicable, and should be buried in the ground and have a covering of 12 to 18 inches of soil. The temperature of house sewage combined with the heat generated by septic action helps to prevent freezing in winter.

As the effluent of a septic tank is only partially purified sewage containing organic matter which is potentially capable of causing objectionable conditions if not properly disposed of, and as it contains at all times many bacteria, among which may be those capable of causing disease, the proper disposal of septic-tank effluent is a matter of very great importance.

For the small installation subsurface irrigation seems to offer the easiest means of disposing of the tank effluent. Where the soil is porous and the seepage rapid, the effluent may be discharged into a leaching cesspool, blind drain, or subsurface tile system. The details of construction of the septic tank and various methods of effluent

disposal, in a porous soil, are shown in Figure 1.

Where the soil is tight and does not allow the rapid passage of liquids, a filter trench may be required. This is constructed by laying two lines of tile, one above the other, in a trench or series of trenches, with an artificial filtering medium between the upper and lower line of tile. The tank effluent is distributed by the upper line of tile, trickles through the filtering material, and is collected in the lower line of tile, from which it may be discharged into an open ditch or into a watercourse. Where a filter trench is used for secondary treatment, there is usually, and always should be, provided a dosing chamber containing an automatic siphon, which collects the tank effluent and discharges it into the trench in a single large flush, thus utilizing the entire volume of the bed. A constant trickle from the tank overdoses a small portion of the trench. For larger installations where secondary treatment consists of sand filters, contact beds, or trickling filters, a dosing tank and automatic siphon are always needed. The construction details for a septic tank, dosing chamber with automatic siphon, and filter trench, are shown in Figure 2.

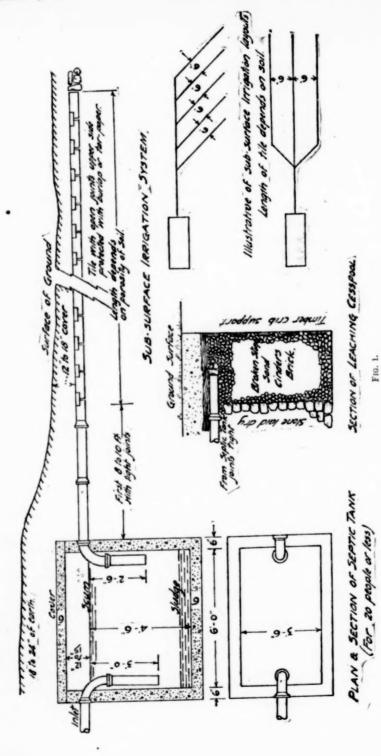
The sewer line from the house to the septic tank should not be less than 4 inches in diameter, preferably 6 inches, should have tight joints, and should have a fall of about 1 foot in 100 feet. The tank should be made of concrete, carefully constructed, and made watertight; and for large installations, reinforcing should be provided. The dosing chamber should have a capacity of about 80 gallons and should be equipped with a 3-inch automatic siphon. The tile lines should be 4 or 6 inches in diameter, laid with open joints, the upper portion of the opening being covered with tar paper, burlap, or old linoleum, to prevent soil from entering the line. The irrigation tiles should have a fall of about 2 or 3 inches per hundred feet. A mat of hay or straw laid over the tile lines and filter material serves to hold the back fill and prevent mud from entering when the ground is moist after rains. The first 10 to 15 feet between the tank and the irrigation system, or between the dosing chamber and the irrigation system, should have tight joints to prevent the effluent from soaking into the ground in the immediate vicinity of the tank.

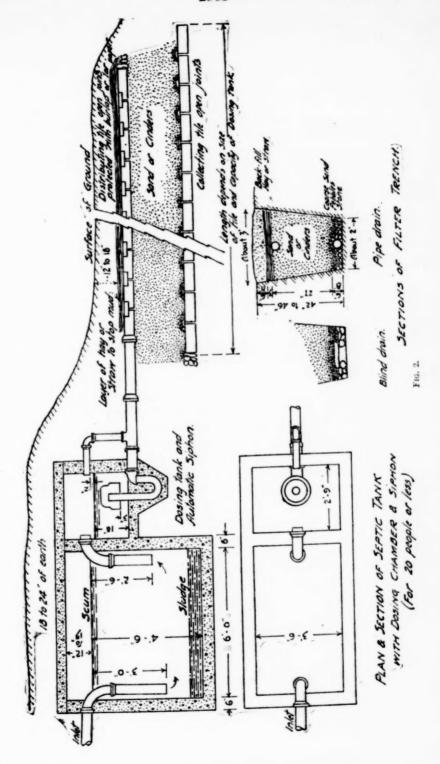
The length of tile lines in the disposal system will depend upon the character of the soil in which the tile is laid. In a coarse sandy soil, 20 feet per person using the tank may be sufficient; whereas in a tight sandy clay soil, 100 feet or more per person may be required. Where a dosing chamber and siphon are used, the size of dose determines the length of tile lines required. The tile lines should have a capacity equal to or greater than the capacity of the dosing chamber. Assuming the capacity of the dosing chamber to be 80 gallons, there should be provided about 125 feet of 4-inch tile, or about 60 feet of 6-inch, to receive at once the entire flush when the dosing tank is

In outlining plans for the construction of septic-tank systems, it is the rule to recommend the installation of a grease trap between the kitchen fixtures and the septic tank, to remove grease from the sewage. In the New Hampshire system no grease trap is provided, and the tanks appear not to be affected by the presence of the grease in the sewage. To prevent trouble at times, it is advisable, however, to remove as much grease as possible from the kitchen wastes and dispose of it by some other method. All excess water which can be excluded conveniently should be excluded from the tank, as continuous flow, without quiescent periods, disturbs septic action.

The oldest New Hampshire tanks have now been in operation and successfully disposing of combined household wastes for a period of 11 years, and, so far, have never required cleaning. The effluent is relatively clear and odorless and in some instances has been disposed of by irrigation over the surface of the ground without offense; but this method from a sanitary standpoint is not recommended.

For the single residence or small group of homes, where a sewerage system is not practicable, it appears that a sewage-disposal system of this type offers a reasonably cheap and efficient method of dis-





posal and requires a minimum amount of supervision after installation. The successful operation of these tanks in New Hampshire suggests that similar results could be obtained in other sections of the country having comparable climatic conditions. The successful operation of a system of this type in sections having summer temperatures much higher and of longer duration can not be definitely stated before a study of installations under such conditions has been made; but it appears probable that this system will give results in the southern sections of the United States similar to those given by it in New Hampshire.

Before installing a system of this kind in any locality, especially in limestone sections of the country, the opinion of the State health authorities should first be obtained as to whether the character of the soil is such that would permit of the operation of the system without danger, owing to the seepage of the partially purified sewage

through voids,

THE BEDBUG.

Its Relation to Public Health, its Habits and Life History, and Methods of Control.

The bedbug is one of the numerous insects which have been suspected of conveying disease to man. Compared with such insect pests as mosquitoes, lice, and fleas, however, its rôle is decidedly a minor one. It has been claimed that the bedbug can take up the microparasites of European relapsing fever, plague, and possibly leprosy, along with the blood of men or animals suffering from these diseases. It is also possible that in rare instances the bedbug may transmit plague or European relapsing fever to man. On the other hand, there is no convincing evidence that the bedbug is the usual and ordinary insect transmitter of these or any other diseases at present known to us.

If the bedbug acts as a transmitter of disease, it apparently does so by the accidental carriage of disease elements on the mouth parts; but this occurs only under the most favorable conditions. These would require, first, the presence of great numbers of microparasites on the skin or in the blood of a man or animal sick with some disease transmissible to man by subcutaneous inoculation; second, it would probably be necessary that there should be many bugs biting in order that one of more of them should bite some healthy person within a rather short space of time after these insects had fed on the infected individual.

In actual practice these conditions would be found only in the most filthy and insanitary surroundings and would call for drastic measures to exterminate all vermin. It is, of course, possible that under unsettled conditions where sick and well are crowded together with no facilities for cleanliness, bedbugs might act as transmitters of septicemic diseases. Experience has shown that under such grossly insanitary conditions, such insects as fleas and lice appear to be and are far more dangerous as carriers of disease. Special measures for their extermination should be taken. Added precautions for the examination of bedbugs under these conditions would probably not be justified by the results.

Notwithstanding the minor rôle which must be assigned the bedbug as a carrier of disease, its presence is an offense against sanitary decency. Its bites are quite poisonous to some people and its odor most disagreeable; and every effort should be made to keep all dwellings, hospitals, ships, and other premises free from these disgusting insects.

Dr. L. O. Howard, Chief of the Bureau of Entomology, United States Department of Agriculture, and consultant United States Public Health Service, has permitted the quotation of the following passages from Farmer's Bulletin No. 754, by C. L. Marlatt, which gives an authoritative account of the habits, life history, and the means of control of these insects.

"General Characteristics.

"The bedbug belongs to the order Hemiptera, which includes the true bugs or piercing insects, characterized by possessing a piercing and sucking beak. The bedbug is to man what the chinch bug is to grains or the squash bug to cucurbs. Like nearly all the insects parasitic on animals, however, it is degraded structurally, its parasitic nature and the slight necessity for extensive locomotion having resulted, after many ages doubtless, in the loss of wings and the assumption of a comparatively simple structure. Before feeding, the adult is much flattened, oval, and in color is rust red, with the abdomen more or less tinged with black. When engorged, the body becomes much bloated and elongated and brightly colored from the ingested blood. The wings are represented by the merest rudiments. barely recognizable pads, and the simple eyes or ocelli of most other true bugs are lacking. The absence of wings is a most fortunate circumstance, since otherwise there would be no safety from it even for the most careful of housekeepers. Some slight variation in length of wing pads has been observed, but none with wings showing any considerable development has ever been found.

"Habits and Life History.

"The bedbug is normally nocturnal in habits and displays a certain degree of wariness, caution, and intelligence in its efforts at concealment during the day. Under the stress of hunger, however, it will emerge from its place of concealment in a well-lighted room at night,

so that under such circumstances keeping the gas or electric light burning is not a complete protection. It has been known under similar conditions to attack human beings voraciously in broad daylight. It usually leaves its victim as soon as it has become engorged with blood and retires to its normal place of concealment, either in cracks in the bedstead, especially if the latter be one of the wooden variety, or behind wainscoting, or under loose wall paper; and in these and similar places it manifests its gregarious habit by collecting in masses. It thrives particularly in filthy apartments and in old houses which are full of cracks and crevices, in which it can conceal itself beyond easy reach. As just noted, the oldfashioned, heavy, wooden-slatted bedsteads afford especially favorable situations for the concealment and multiplication of this insect. and the general use in later years of iron and brass bedsteads has very greatly facilitated its eradication. Such beds, however, do not insure safety, as the insects are able to find places of concealment even about such beds, or get to them readily from their other hiding places.

"The bedbug takes from 5 to 10 minutes to become bloated with blood, and then retires to its place of concealment for 6 to 10 days for the quiet digestion of its enormous meal, and for subsequent

molting, or reproduction if in the adult stage."

"The eggs hatch in a week or 10 days in the hot weather of midsummer, but cold may lengthen or even double this incubation period or check development altogether. The young escape by pushing up the lid-like top with its projecting rim. When first emerged, they are yellowish white and nearly transparent, the brown color of the more mature insect increasing with the later molts."

"Unfavorable conditions of temperature and food will necessarily result in great variation in the number of generations annually and in the rate of multiplication, but allowing for reasonable checks on development, there may be at least four successive broods in a year

in houses kept well heated in winter."

"Food and Longevity.

"Under normal conditions the food of the common bedbug is obtained from human beings only, and no other unforced feeding habit has been reported. It is easily possible, however, to force the bedbug to feed on mice, rats, birds, etc., and probably it may do so occasionally in nature in the absence of its normal host. The abundance of this insect in houses which have long been untenanted may occasionally be accounted for by such other sources of food, but probably normally such infestation can be explained by the natural longevity of the insect and its ability to survive for practically a year, and perhaps more, without food."

"Influence of Temperature.

"As a messmate of human beings in dwelling houses, the bedbug is normally protected from extreme cold and is known to be an abundant and serious pest far north. In fact, it is often more troublesome in north temperate latitudes than farther south. This may be accounted for partly by the fact that the bedbug is very sensitive to high temperatures, and a temperature of 96° to 100° F. or more, accompanied with a fairly high degree of humidity, results in the death of large numbers of the bugs. The mature or partly mature bedbugs can stand comparatively low temperatures, even below freezing, for a considerable period. The eggs and newly hatched larvæ, however, succumb to a temperature below freezing, if this condition is prolonged for from 15 days to a month. The feeding and developing activity of the insect practically ceases at 60° F., the insect remaining quiescent and in semihibernation at temperatures below this point. The most favorable temperatures for activity are between 60° and 98° F. The activity of the insect is controlled entirely by temperature and food supply, and, therefore, in heated houses the insect may remain active throughout the winter. There is some protection in winter, therefore, in sleeping in cold bedrooms."

"The Bite of the Bedbug.

"The bite of the bedbug is decidedly poisonous to some individuals, resulting in a slight swelling and disagreeable inflammation. To such persons the presence of bedbugs is sufficient to cause the greatest uneasiness, if not to put sleep and rest entirely out of the question. With others, however, who are less sensitive, the presence of the bugs may not be recognized at all, and, except for the occasional staining of the linen by a crushed individual, their presence might be entirely overlooked. The inflammation experienced by sensitive persons seems to result chiefly from the puncture of the skin by the sharp piercing setæ which constitute the puncturing element of the mouth parts, as there seems to be no secretion of poison other than the natural fluids of the mouth.

"The biting organ of the bedbug is similar to that of other insects of its order. It consists of a rather heavy, fleshy under lip (the only part ordinarily seen in examining the insect), within which lie four thread-like hard filaments or setæ which glide over one another with an alternating motion and pierce the flesh. The blood is drawn up through the beak, which is closely applied to the point of puncture, and the alternating motion of the setæ in the flesh causes the blood to flow more freely.

"To allay the irritation set up by the bite of the bedbug, peroxide of hydrogen or dioxygen may be used with good results.

"Tincture of iodine either at ordinary or double strength is also a good counterirritant for use in cases of flea, mosquito, bedbug, and other insect bites, but should be used with caution on the tender skin of small children and on those who are affected with or disposed to eczemic disorders."

"Natural Enemies of the Bedbug.

"Living always in houses as it does and being well concealed, the bedbug is not normally subject to much if any control by natural enemies. Certain other household insects, however, do occasionally prey upon the bedbug, as, for example, the house centipede and the common little red house ant. Such enemies, however, are of very small importance and yield little, if any, effective control except under very exceptional circumstances."

"Remedies.

"Undoubtedly the most efficient remedy for the bedbug is to fumigate the infested house or rooms with hydrocyanic-acid gas. This gas will penetrate into every crevice in the house or room where the bedbugs conceal themselves and has an immediate effectiveness which gives it an important recommendation, especially when the infestation is considerable or of long standing. This method of fumigation should be intelligently employed, as the gas is deadly poisonous." Five ounces of potassium cyanide per 1,000 cubic feet

of space should be employed; exposure, one hour.1

"The fumes of burning sulphur are also a very efficient means of control where the conditions are such that this method can be used, readily destroying the insect in all stages, including the egg. The treatment is inexpensive compared with the use of hydrocyanic-acid gas and offers much less risk of danger to human beings. There is, however, a considerable risk of injury to household fabrics, furnishings, and wall papers from the strong bleaching quality of sulphur fumes. This danger will be somewhat diminished if the fumigation can be done at a time when the room or house is thoroughly dried out, as in winter by a furnace or other heating system. Further precautions should be taken by removing all metallic surfaces from the room or building, or by protecting them with a coating of vaseline."

Four pounds of sulphur are recommended for each 1,000 cubic feet of space, and the building should be closed for the treatment for at least five or six hours * * * *. "Sulphur candles may be used where available, or the sulphurous gas or fumes can be generated by burning the sulphur in a dish placed in the center of the room, and for protection set within a larger vessel. Thoroughgoing precautions

¹Creel, R. H., and Faget, F. M., Cyanide Gas for the Destruction of Insects, with Special Reference to Mosquitoes, Fleas, Body Lice, and Bedbugs: Public Health Reports, June 9, 1916, pp. 1464-1475. Reprint No. 343.

must be taken to prevent accidental overflowing or the starting of a fire, and after the fumigation the house should be given a thorough airing.

"Other gases have been experimented with, such as formalin and the vapors of benzine, naphthalene, and camphor, but these gases are of little value. Similarly, insect powders are of little value, largely from the difficulty of getting them into the crevices and other places of concealment of the insects.

"The old-fashioned household remedies referred to below are effective enough, though at a greater cost of time and personal effort. They will, however, be often of much service in the case of slight or recent infestations, or where the employment of more poisonous and troublesome gases is objected to or is impracticable. Of these simple methods of control perhaps the most efficient is in very liberal applications of benzine or kerosene, or any other of the lighter petroleum oils, introduced with small brushes or feathers, or by injecting with syringes into all crevices of beds, furniture, or walls where the insects may have concealed themselves. Corrosive sublimate is also of value, and oil of turpentine may be used in the same way. The liberal use of hot water, wherever it may be employed without danger to furniture, etc., is also an effectual method of destroying both eggs and active bugs.2

"Various bedbug remedies and mixtures are for sale, most of them containing one or another of the ingredients mentioned, and these are frequently of value. The great desideratum, however, in a case of this kind, is a daily inspection of beds and bedding, particularly the seams and tufting of mattresses, and of all crevices and locations about the premises where these vermin may have gone for concealment. A vigorous campaign should, in the course of a week or so

^{2&}quot; A remedy for the bedbug has been devised by Mr. R. H. Pettit ('Notes on two insecticidal agents,' 10th Rpt. Mich. Acad. Sci., p. 159-160, 1908) as a substitute for hydrocyanic-acid gas and sulphur, and is reported to have proved very successful. The preparation of this insecticide and its application is

[&]quot;Alcohol is drawn through pyrethrum in a funnel until the powder is well washed and a large part of the resinous principle extracted. To do this, the powder is placed in a large funnel with filter-plate and a layer of cotton wool at the bottom. An aspirator is attached and the alcohol is at first slowly and later rapidly sucked through six or eight times, during which operation it becomes highly colored. To this liquid as a basis, are added several oils to give permanence to the application. Both alcohol and pyrethrum evaporate so quickly that it was thought best to carry in some heavier volatile oils whose effects would last several days or even weeks. The formula when completed stands as follows:

[&]quot;To the extract made by washing 400 grams of pyrethrum with 2,000 c. c. of strong alcohol, are added— 50 grains gum camphor.

¹⁵⁰ c. c. cedar wood oil.

²⁵ grams oil citronella.

²⁵ grams oil lavender.

[&]quot;The application is best made with a large-sized atomizer, one holding a pint or more and working with a piston instead of a rubber bulb. * * * To obtain the best results, repeat the treatment after about two weeks. We have tried this mixture repeatedly and with uniformly gratifying results. Usually one application, if thoroughly made, put a period to the complaints, about eight to ten ounces being required in an average sleeping room. The odor remains some little time in a room, but is not disagreeable to the average person.

[&]quot;This remedy can be readily prepared by a pharmacist in any drug store."

at the outside, result in the extermination of this very obnoxious and embarrassing pest."

"Temperature control.—The possibility of temperature control is indicated in the discussion elsewhere of the effect of temperature on this insect. A temperature maintained below freezing for 10 or 15 days destroys the eggs, and this temperature continued for 15 days to a month will destroy the newly hatched young. It may be, therefore, that if infested houses in cold climates should be opened up and allowed to remain at a temperature well below freezing for a considerable period, all eggs and the young, and possibly most if not all of the adults, would be exterminated. This method of control might perhaps be practicable at least in the case of summer houses in the North which are left untenanted in the winter.

"The maintaining of high temperatures may be an even more efficient method of control. The activity of the bedbug is at its greatest between 60° and 70° to 75°. As indicated elsewhere, in a temperature of 96° to 100° F., accompanied with a high degree of humidity, newly hatched bedbugs perish within a few days, and, if this temperature is raised to 113° F., in a few minutes.³ A temperature of 113° will also destroy the eggs, and with these higher temperatures the item of humidity is not apparently important."

VACCINATION AND SMALLPOX MORTALITY.

The following account of a smallpox outbreak in Glasgow, Scotland, is taken from The Medical Officer, London:

"Early in September the medical officer of health dealing with smallpox in Glasgow reported that since the outbreak began 477 patients have been admitted to hospital—459 from within the city and 18 from adjoining areas. Of the cases, 128 were children under 15 years of age, of whom 98 were unvaccinated, while the remaining 30 had been vaccinated in infancy. Attention is again drawn to the difference in severity of the disease in these two groups, vaccinated and unvaccinated children. None of those who had been vaccinated in infancy have died, while 32 of the unvaccinated died, a death rate among unvaccinated children of 33 per cent. Among the 349 patients in the group aged 15 years and over, 9 were unvaccinated, 6 of whom died. Evidence of previous vaccination was doubtful in 6, 2 of whom died. Of the remaining 334 patients vaccinated in infancy, 54 have died.

³ Editorial Note.—An account of successful use of live steam to eradicate bedbugs in bunkhouses, as practiced by a lumber company in Oregon, was published in Public Health Reports, Nov. 28, 1919, pp. 2713–2714. In that instance steam pipes were tapped, after closing all doors and windows, and a temperature of 160° F. was held for approximately 3 hours. The officials of the company stated that 2 months after the steaming no signs of bedbugs had been found.
¹ Public Vaccination Service Notes, The Medical Officer, Oct. 23, 1920, p. 6.

"The relationship between vaccinated state and mortality may be set forth as follows:

	Number of cases.	Deaths.	Mortality rate.
Vaccinated in infancy Unvaccinated No definite evidence of successful vaccination.	361 107 6	54 38 2	Per cent. 15 35 33
	477	91	20

"The relative excess of mortality among the unvaccinated therefore continues. It may be added that so far no cases have occurred among the medical, nursing, or administrative staff engaged in dealing with patients."

Dr. W. McConnel Wanklyn, a vigorous antismallpox fighter in England, has made exhaustive studies, both clinical and administrative, on smallpox over a long period of time, and the following cardinal principles have dominated his antismallpox campaign: "(1) Inform the public of the risk they are running; (2) make the fullest use of routine vaccination; (3) push vaccination in an outbreak of smallpox and very promptly; and (4) emphatically, let the authorities be constantly on the alert."

PUBLIC HEALTH ENGINEERING ABSTRACTS.

Experience with Imhoff tanks in Minnesota.—J. A. Childs, Engineer, Division of Sanitation, Minnesota State Board of Health, St. Paul, Minn.—Municipal and County Engineering, Vol. LIX, No. 5, November, 1920, p. 162.

The first Imhoff tank in Minnesota was constructed in 1911. Since then 40 municipal and institutional tanks have been installed, together with two or three hundred Imhoff tanks used in the treatment of school-building sewage. The earlier designs were patterned after German constructions, but it was soon found that the sludge chamber capacity was not large enough, owing to the long, cold winters in Minnesota, which retarded the action of the sludge. The State board of health now requires a minimum capacity, below the settling compartment slots, of 2 cubic feet per capita tributary to the system, which eliminates this difficulty.

A properly designed Imhoff tank must not be regarded as an automatic piece of apparatus, but should receive intelligent care to give the best results, as has been demonstrated in Minnesota. For the average Minnesota municipality, there seems to be no type of

² Public Vaccination Service Notes, The Medical Officer, Oct. 23, 192), p. 6.

tank treatment which meets all requirements better than that of the Imhoff tank.

General sanitary conditions in Czechoslovakia.—Bulletin of the League of Red Cross Societies, Geneva, Switzerland, Vol. II, No. 1, October, 1920, p. 33.

Only a few of the large cities of Slovakia and Carpathian Russia have municipal water supplies. Among all the cities of 4,000 population or more, 10 per cent have a supply of 70 liters per man per day; 6 per cent, a supply of 20 to 60 liters per man per day; and 84 per cent, no public water supply.

The water systems of the large cities are, in general, well built and

designed to assure a safe supply.

In most of the towns, villages, and rural districts one sees very commonly the dug well with its long sweep. The water level is usually not far below the surface of the ground—perhaps from 3 to 4 up to 8 or 10 meters. The surroundings, the proximity of dwelling houses, cesspools, barns and barnyards, manure piles, etc., and the frequent poor construction of the well curb and the neglect of careful drainage about the well, form accumulative evidence that the people are unaware of or indifferent to the dangers of polluted well water. The fact that typhoid fever and other intestinal diseases are endemic in many regions is therefore not surprising.

General policies of the Engineering Division of the Pennsylvania Department of Health.—C. A. Emerson, jr., Chief Engineer, Engineering Division, State Department of Health, Harrisburg, Pa., July, 1920.

During the past summer months the engineering division of the Pennsylvania Department of Health has been reorganized into sections on Housing, Investigation of Industrial Wastes Pollution, Restaurant Hygiene Inspection, Rural Sanitation, Waterworks and Sewerage, and Chemical and Bacteriological Laboratory. The State has been divided into eight districts, each district in charge of an engineer with one or more assistant engineers. Under general direction of the chief of the waterworks and sewerage section, the district engineer has responsible charge of waterworks and sewerage applications, examination of plans, field investigations, and reports thereon and on the operation of waterworks and sewerage systems. After careful investigation of the present use and conditions of the waters of the State in his district, the district engineer will recommend to the chief engineer policies for the use of various streams or parts of streams in his district as regards water supply and sewage disposal, stating the degree of purification for water and treatment of sewage required. When approved by the chief engineer and directed by the chief of the waterworks and sewerage section, the district engineer will have investigations made for the rural sanitation and housing sections and will make recommendations for the correction of insanitary conditions involving engineering in his district. When approved by the chief engineer, the district engineer, under the general direction of the chief of the waterworks and sewerage section, will cooperate with the county medical director or the medical division in typhoid epidemics. The district engineer will limit his activities to engineering matters, such as water supplies, sewerage, excreta disposal, milk supplies, etc., leaving all medical matters, unless otherwise specifically ordered, under the jurisdiction of the medical officers.

The rural sanitation section has one or more district inspectors in each district, whose duties are as tollows:

(a) In second-class townships: Inspect and secure abatement of public health nuisances requiring knowledge beyond the

ability of the department health officers.

- (b) In municipalities: Inspect and secure abatement of public health nuisances in cases where the local board of health fails to secure abatement and where the conditions are not sufficiently acute for the State department of health to take over the functions of the local board of health.
- (c) Assist in instruction and guidance of local health committees and local boards of health.
 - (d) Report on the efficiency of department health officers.
- (e) Inspect and secure abatement of pollutions on watersheds of streams used for public water supplies, and train health officers and water company representatives in doing such work.
- (f) Serve notices, secure evidence, etc., incidental to prosecutions in cases of public health nuisances and stream pollutions.
 - (g) Sample private water supplies as ordered.
- (h) Such other duties as may be assigned by the chief of the rural sanitation section.

When temporarily assigned by the chief of the rural sanitation section to the waterworks and sewerage section, district inspectors will perform the following work under the direction of the district engineer or his representative:

- (a) Make field investigations to determine compliance with provisions of waterworks and sewerage permits and decrees.
 - (b) Sample public water supplies.
- (c) Supervise the installation and maintenance of emergency waterworks disinfection apparatus.
 - (d) Post notices.
 - (e) Seal by-pass connections of public water supplies.
 - (f) Take "census" during typhoid fever epidemics.
- (g) Inspect the production, handling, and distribution of milk supplies during typhoid epidemic investigations.
- (h) Such other duties as may be assigned by the district engineer.

DEATHS DURING WEEK ENDED NOV. 27, 1920.

[From the "Weekly Health Index," Nov. 30, 1920, issued by the Bureau of the Census, Department of Commerce.]

Deaths from all causes in certain large cities of the United States during the week ended Nov. 27, 1920, infant mortality (per cent), annual death rate, and comparison with corresponding week of preceding years.

	Population	Week ene 27, 1	ded Nov. 1920.	Average	Per cent of deaths under 1 year.		
City.	Jan. 1, 1920, sub- ject to revision.	Total deaths.	Death rate,1	death rate per 1,000.2	Week ended Nov. 27, 1920.	Previous year or years,3	
Akron, Ohio	208, 435	28	7.0	\$ 9.2	42.9	*2	
Albany, N. Y.	113,344	33	15.2	C 14.3	15.2	C 6.	
Atlanta, GaBaltimore, Md	200,616 733,826	59	15.3	C 14.5 A 15.5	3.4	C 7.	
Birmingham, Ala	178, 270	204 55	14.5 16.1	A 19.6	9.8 7.3	A 15.	
Boston, Mass	747, 923	187	13.0	A 16.2	15.5	A 11. A 13.	
Bridgeport, Conn Buffalo, N. Y	143, 152 506, 775	33	12.0	A 15.1	15.2	A 17.	
Buffalo, N. Y	506,775	125	12.9	C 12.5	16.0	C 15.	
embridge, Mass hicago, III	109, 456	30	14.3	A 15.1	26.7	A 15.	
nicago, Ill	2,701,705	594	11.5	A 12.9	15.5	A 17.	
incinnati, Obioleveland, Ohio	401, 247	93	12.1	C 16.8	10.8	C 9.	
olumbus, Ohio	796, 836 237, 031	186	12.2	C 9.6	15.1	C 13.	
allas, Tex	158, 976	33	13.2	C 13.4 A 12.2	15.0 6.1	C 16.	
ayton, Ohio	153, 830	23	10.8 7.8	C 10.3	21.7	A 8. C 16.	
enver, Colo	256, 491	75	15.2	A 11.1	13.3	C 10.	
etroit, Mich	993, 739	178	9.3		21.9		
all River, Mass	120, 485	32	13.8	C 14.7	28.1	C 23.	
rand Rapids, Mich	137, 634	29	11.0	C 10.3	17.2	C 11.	
artford, Connouston, Tex	138,036	31	12.8		17.6		
dianapolis, Ind	138, 276 314, 194	24	9.1		4.2		
rsey City, N. J.	298,079	83 75	13. 8 13. 1	C 13.6 C 12.1	9.6 17.3	C 7.	
ansas City, Kans	101, 177	28	14.4	0 12.1	10.7	C 11.	
ansas City, Kansansas City, Mo	324, 410	81	13.0	C 13.0	14.8	C 7.	
s Angeles, Calif	576,673	126	11.4	A 14.7	7.9	A 12.	
uisville, Ky	234, 891	76	16.9	C 11.8	9.2	C 13.	
well, Mass	112,479	31	14.4	A 12.4	19.4	A 10.	
mphis, Tenn	162,351	53	17.0	C 24.7	13.2	C 5.	
lwaukee, Wisnneapolis, Minn.	457, 147	101	11.5	A 11.7	21.8	A 18.	
shville Tenn	380, 582 118, 342	75 53	10.3	C 8.3	12.0	C 16.	
wark, N. J.	414, 216	102	23. 4 12. 8	C 17. 2 C 12.4	15.1	C 7.	
shville, Tenn	121, 217	25	10.8	A 16.6	28.0	A 30.	
w Haven, Conn	162,519	25	8.0	C 8.1	12.0	C 12.0	
w Orleans, La	387, 219	138	18.6	A 21.4	12.3	A 12.0	
w York, N. Y	5,620,048	1,232	11.4	C 12.0	13.6	C 12.	
rfolk, Va	115,777 216,361	16	7.2		18.8		
rfolk, Va kland, Calif. naha, Nebr iladelphia, Pa tsburgh, Pa	216, 361	48	11.6	A 12.4	20.8	A 10.	
ladalphia Pa	191,601	26	7.1	C 9.1	15.4	C 9.1	
tshurgh, Pa	1,823,158 588,193	458 160	13.1	C 12.3	14.8	C 14.	
rtland, Oreg	258, 288	53	10.7	C 12.4	7.5	C 13.	
vidence, R. I	237, 595	61	13.4	C 15. 2	16.4	C 10.	
hmond, Va	171,667	48	14.6	C 19.4	14.6	C4.8	
chester, N. Y.	295, 750	61	10.8	C 10.7	16.4	C 4.8 C 8.3	
rtland, Oreg vyidence, R. I hmond, Va. chester, N. Y Louis, Mo.	772, 897 234, 680	174	11.7	C 10.9	5.2	C 6.8	
Paul, Minnt Lake City, Utaht Francisco, Calif	234,680	45	10.0	C 13.8	15.6	C 6.5	
Francisco Colif	118, 110 506, 676	19	8.4	A 11.3	26.3	43 = 4	
	315,652	39	11.7	C 14.0 A 8.6	6.1	C 5.9	
okane, Wash	104, 204	21	10.5	C 8.5	4.8	A 6.9 C 23.5	
okane, Wash ringfield, Mass. racuse, N. Y ledo, Ohio.	129,338	28	11.3	00.0	21.4	0 20.0	
acuse, N. Y	171,647	33	10.0	C 10.4	21.2	C 11.8	
edo, Ohio	243, 164	58	12.4	A 14.3	15.5	A 15.4	
enton, N. J. shington, D. C.	119, 283	36	15.7	A 16.3	25.0	A 14.6	
shington, D. C	437, 571	132	15.7	A 16.0	12.1	A 11.0	
mington, Del	110, 168	30	14.2	C 11.0	10.0		
reester, Mass	179,754 100,176	42	12.2	C 13.2	11.9	C 22. 2	
angstown, Ohio		17	8.8	A 11.5	29.4	A 18.0	
minguenting Villarianianianianianiani	132,358	33	13.0		21.2		

Annual rates per 1,000 population.
 "A" indicates data for the corresponding week of the years 1913 to 1917, inclusive. "C" indicates data for the corresponding week of the year 1919.
 Data are based on statistics of 1915, 1916, and 1917.

Summary of information received by telegraph from industrial insurance companies for week ended Nov. 27, 1920.

Policies in force	44, 841, 423
Number of death claims	6, 598
Death claims per 1,000 policies in force, annual rate	7.7

PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

CURRENT STATE SUMMARIES.

Telegraphic Reports for Week Ended Dec. 4, 1920.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

ALABAMA.		CONNECTICUT—continued.	
	27	Diphtheria: Co	ses.
Diphtheria		Bridgeport	13
Hookworm		Hartford	15
Influenza	6	New Britain	12
Searlet fever	12	New Haven	17
Smallpox	15		
Tuberculosis	9	Scattering	80
Typhoid fever	9	German measles	1
		Influenza	10
AREANSAS.		Measles	35
Cerebrospinal meningitis	2	Mumps	26
Chicken pox	2	Pneumonia (lobar)	27
Dipitheria	49	Scarlet fever:	
Influenza	47	Bridgeport	16
Malaria	38	New Haven	23
Measles	-	Scattering	72
Ophthalmia neonaterum.	1	Tetanus	-1
	5	Tuberculosis (all forms)	41
Pellagra		Typhoid fever	9
Scarlet fever	29	Whooping cough	93
Smallpox	1		
Trachoma	3	DELAWARE.	
Tuberculosis	11	Chieken pox	4
Typhoid fever	17	Diphtheria	8
Whooping cough	69	Melaria	1
		Pneumonia	3
CALIFORNIA.		Scabies	1
Influenza	16	Searlet fever	6
-Lethargic encephalitis-San Francisco	2	Typhoid fever	4
Smallpox:		Tuberculosis	9
Berkeley	8	Whooping cough	5
Fullerton	9	N. Carre	
Monterey	11	FLORIDA.	
Sacramento	18	Cerebrespinal meningitis	1
San Francisco	17	Diphtheria	25
Scattering	38	Influenza	2
Typhoid fever	8	Malaria	15
**		Pneumonia	5
CONNECTICUT.		Scarlet fever	12
Cerebrospinal meningitis	1	Smallpox	8
Chicken pox.	29	Typhoid fever	5
Cuteken box	20	Typhota tevet	0

Cases Franchipex Cases Franchipex Cases Conjunctivitis (acute infections) 3	GEORGIA.		towa continued.	
Conjunctivitis (acute infectious)			Emalipox: Ca	ses.
Conjunctivitis (acute infections)		-		
Designe	Conjunctivitis (acute infectious)			
Diphteria	Dengue			
Hookworm	Diphtheria	27	· cattering	24
Hookworm.	Dysentery (amebic)	1		
Influenza	Hookworm	3	KANSAS.	
Malaria. 20 Chee'en pox. 61 Mumps. 15 Diphtheria. 301 Mumps. 2 Inhiberia. 301 Mumps. 2 Preumonia. 22 Proliomyelitis. 11 Memp. 22 Septic sore throat. 6 Preumonia. 23 Smallpox. 28 Fearlet fever. 33 Tuberculosis (pulmonary). 9 Binallpox. 43 Typhoid fever. 9 Trachoma. 12 Typhoid fever. 11 Trachoma. 1 Typhoid fever. 11 Trachoma. 1 Typhoid fever. 11 Trachoma. 1 Typhoid fever. 11 Whooping cough. 42 Cerebrospinal meningitis. 2 1 Evaluar. 14 Diphtheria. 2 Diphtheria. 2 1 Cerebrospinal meningitis. 2 2 Cate Park. 13 Typhoid fever. 11		15	Caral-rost and managed is	1
Measles.		20		
Mumps				
Processor Proc				
Poliomyelitis				
Searlet fever. 12 Pellagra 3 3 3 3 5 5 5 5 5 5			Measles	262
Septic sore throat.	Poliomyelitis	1	Memps	2
Septile sore throat.	Scarlet fever	12	Pellagra	3
Smallpox 28	Septic sore throat	6		
Tuberculesis (pulmonary)		28		
Typhoid fever.		-		
Typhus fever.				
Whooping cough 12				
Cerebrospinal meningitis Chicago				
Cerebrospinal meningitis	Whooping cough	12	Typhoid fever	11
Cerebrospinal meningitis	HILINOIS		Whooping cough	42
Diphtheria: Chicago				
Chicago	Cerebrospinal meningilis Chicago	5		
Decatur	Diphtheria:		LOUISIANA.	
Decatur	Chicago	333	Combined to the state of the st	
Evanston		14		
Moline				
Cak Park. 15 Smalpox. 66 Scattering 111 Typhoid fever. 11 Influenza. 32 Pneumonia. 188 Poliomyelitis: Chicken pox 18 Abingdon. 2 2 Chicago. 1 German messles. 1 Alton. 9 Mumps. 5 Chicago. 182 Pneumonia. 8 Chicago. 182 Pneumonia. 1 Chicago. 182 Pneumonia. 2 Chicago. 182 Pneumonia. 8 Chicago. 182 Pneumonia. 1 Sarlet fever. 21 Pneumonia. 1 Sarlet fever.			Ecarlet fever	17
Scattering			Emalipox	63
Influenza			Typhoid fever	11
Poliomyelitis:	Scattering			
Poliomyelitis:	Influenza	32		
Abingdon	Pneumonia	188	MAINE.	
Abingdon	Poliomyelitis:		Chieken pox	18
Chicago	•	9		
Measles 73				
Alton. 9 Mumps. 5 5 Chicago. 182 Chicago. 182 Chicago. 182 Chicago Heights. 11 Poliomyelitis—Athens. 1 Scarlet fever. 21 Oakford Township. 9 Smallpox. 22 Smallpox. 31 Oak Park. 13 Springfield. 34 Scattering. 167 Smallpox: Gillespie. 8 Magison. 9 Rockford. 10 Scattering. 76 Typhoid fever. 14 INDIANA. Influenza. 32 Cerebrospinal meningitis: Dekalb County. 1 Vanderburg County. 1 Measles. 1 Influenza. 32 Diphtheria. 194 Scarlet fever. 362 Smallpox. 210 Typhoid fever. 21 Towa. 21 Smallpox. 22 Smallpox. 210 Typhoid fever. 362 Smallpox. 364 Smallpox. 365 Typhoid fever. 365 Springer fever. 366 Scarlet fever. 367 Springer fever. 367 Springer fever. 368 Springer fever. 368 Springer fever. 369 Springer fever. 369 Springer fever. 369 Springer fever. 360 Springer fever		•		
Chicago 182 Pneumonia 8 Chicago Heights 11 Poliomyelitis—Athens 1 Menard County 1 Scarlet fever 21 Oak ford Township 9 Smallpox 2 Sandridge Township 11 Tuberculosis 31 Oak Park 13 Typhoid fever 17 Springfield 34 Typhoid fever 17 Smallpox: 157 Wheoping cough 2 Smallpox: 167 Wheoping cough 2 Smallpox: 10 MARYLAND.1 1 Whooping cough 2 2 Cerebrospinal meningitis: 2 2 Typhoid fever 14 1 1 Dekalb County 1 1 1 1 1 Yanderburg County 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 <t< td=""><td></td><td></td><td></td><td>73</td></t<>				73
Chicago Heights 11 Poliomyelitis—Athens 1 Menard County— Scarlet fever. 21 Oak ford Township 9 Smallpox 2 Sandridge Township 11 Tuberculosis 31 Oak Park 13 Typhoid fever 17 Springfield 34 Typhoid fever 17 Smallpox: 34 Wheoping cough 2 Smallpox: 4 Wheoping cough 2 Smallpox: 8 MARYLAND.1 3 Cerebrospinal meningitis 2 Chicken pox 48 Scattering 76 Diphtheria 89 Typhoid fever 14 Influenza 32 Lethargic encephalitis 1 Lethargic encephalitis 1 Dekalb County 1 Meastes 48 Wumps 6 6 Scarlet fever 30 2 Smallpox 21 2 Small pox 21 2 Typhoid fever				5
Menard County		182	Pneumonia	8
Menard County	Chicago Heights	11	Poliomyelitis-Athens	1
Oakford Township. 9 Smallpox. 2 Sandridge Township. 11 Tuberculosis. 31 Oak Park. 13 Typhoid fever. 17 Springfield. 34 Wheoping cough. 2 Smallpox: Wheoping cough. 2 Gillespie. 8 MaryLand. Gillespie. 8 MaryLand. Rockford. 10 Chicken pox. 48 Scattering. 76 Diphtheria. 89 Typhoid fever. 14 German measles. 1 Influenza. 32 Lethangie encephalitis. 1 Dekalb County. 1 Measles. 48 Mumps. 6 6 Scarlet fever. 302 Pneumonia (all forms). 5 Scarlet fever. 20 Septic sore throat. 1 Tuberculosis. 1 Tuberculosis. 1 Tuberculosis. 2 2 Chicken pox. 48 2 Diphtheria.	Menard County			21
Sandridge Township	Oakford Township	9		
Oak Park 13 Typhoid fever 17 Springfield 34 Whooping cough 2 Smallpox: IST Whooping cough 2 Gillespie 8 Madison 9 Cerebrospinal meningitis 2 Rockford 10 Chicken pox 48 Scattering 76 Diphtheria 89 Typhoid fever 14 German measles 1 Influeza 32 Lethargic encephalitis 1 Dekalb County 1 Measles 48 Mumps 6 Scarlet fever 30 Ophthalmia neonatorum 5 Pneumonia (all forms) 62 Poliomyelitis 1 Typhoid fever 21 Septie sore throat 1 Scarlet fever 53 Septie sore throat 1 Diphtheria 30 Tuberculosis 81 Poliomyelitis—Cedar Rapads 1 Typhoid fever 26 Scarlet fever 76 Whooping cough 69		11		
Springfield				
Scattering				
Smallpox:			Whoofing cough	2
Madison		104		
Madison		1	MARYLAND,1	
Rockford		8		
Rockford		9	Cerebrospinal meningitis	2
Scattering	Rockford	10		
Typhoid fever	Scattering	76		
Influence 32 Cerebrospinal meningitis: Lethargic encephalitis 1				
Cerebrospinal meningitis: Lethargic encephalitis 1 Dekalb County. 1 Measles 48 Vanderburg County 1 Mumps 6 Diphtheria 19t Ophthalmia neonatorum 5 Scarlet fever 302 Poliomyelitis 1 Smallpox 21 Poliomyelitis 1 Typhoid fever 21 Septie sore throat 1 Septie sore throat 1 Tuberculosis 81 Poliomyelitis—Cedar Rapads 1 Typhoid fever 26 Scarlet fever 76 Whooping cough 69	2,7,000			
Dekalb County.	INDIANA.		The state of the s	32
Dekalb County.	Corchrespinal maninestis:		Lethargic encephalitis	1
Name			Measles	48
Diphtheria 19t Scarlet fever 362 Poliomyelitis 1 1 1 2 2 2 2 2 2 2				6
Preumonia (all forms) 62				5
Scarlet fever. 302 Poliomyelitis 1				
Smartpox 210 Scarlet fever 53	Scarlet fever	302		
Typhoid fever. 21 Scarlet lever. 53	Smallpox	210		
Formula Smallpox 1				
Diphtheria 30 Tuberculosis 81 Poliomyehtis—Cedar Rapids 1 Typhoid fever 26 Scarlet fever 76 Whooping cough 69				1
Poliomyeltis-Cedar Rapids 1 Typhoid fever	IOWA.		Smalipox	1
Poliomyeltis-Cedar Rapids 1 Typhoid fever	Diphtheria	30	Tuberculosis	81
Scarlet fever			Typhoid fever	26
			Whooping cough	69
		,		

MASSACHUSETTS.		NEW MEXICO.	
	ases.		ses.
Cerebrospinal meningitis			27
Chicken pex		Conjunctivitis	4
Conjunctivitis (suppurative)		Diphtheria	
Diphtheria		Malaria	1
German measles		Measles:	
Influenza		Bernalillo	11
Measles		Seattering	6
Mumps		Mumps	10
Ophthalmia neonatorum		Pneumonia	15
Pneumonia (lobar)		Scarlet fever	10
Poliomyelitis		Septic sore throat	6
Searlet fever		Smallpox	2
Septic sore throat		Tuberculosis:	
Tetanus	1	Bernaliilo	11
Trachoma	. 1	Grant	28
Tuberculosis (all forms)	161	Seattering	5
Typhoid fever	17	Typhoid fever	10
Whooping cough	109	Whooping cough	13
		NEW YORK.	
MINNESOTA.			
Smallpox	26	(Exclusive of New York City.)	
MISSIES PPL		Cerebrospinal meningitis:	
		Auburn	1
Cerebrospinal meningitis	2	Tarrytown	1
Diphtheria	18	Diphtheria	381
Scarlet fever	16	Influenza	26
Smallpox	24	Lethargic encephalitis	1
Typhcid fever	11	Measles	742
		Pneumonia	107
MONTANA.		Peliomyelitis-Livingston	2
Cerebrospinal moningitis-Eillings	1	Searlet fever	275
Diphtheria	2	Smallpox	1
Searlet fever.	15	Tetanus	1
Smallpox	16	Typhoid fever	36
Typhoid fever	3	Whooping cough	386
NEBRASKA.	1	NORTH CAROLINA.	
Cerebrospinal meningitis	1	Cerebrospinal meningitis	1
Chicken pox	52	Chieken pox	88
Diphtherin:		Diphtheria	100
Omaba	10	Measles	78
Scattering	26	Scarlet fever	44
Measles	7	Septie sore throat	10
Mumps	2	Smallpox	19
Searlet fever	36	Typhoid fever	20
Smallpox:	1	Whooping cough	122
Boyd County	S	оню.	
Cozad	11	Smallpox:	
Omaha	9	Allen County - Delphos - Epidemie.	
Scattering	50		
Tuberculosis	6	SOUTH DAKOTA.	
Typhoid fever	4	Chieken pox	14
Whooping cough	9	Diphtheria	23
		Influenza	3
NEW JERSEY.	1	Measles	46
Cerebrost inal meningitis	2	Pneumonia	4
Chie'sen pox	-	Scarlet fever	36
Diphtheria		Smallpox	61
Influenza	18	Tuberculosis	20
Malaria	2	Typhoid fever	2
Measles.	73	Wheeping cough	5
Pneumonia		TEXAS.	
Scarlet fever.		Authrax - Ballinger	1
Typhoid fever	18	Chicken pox	7
Whooping cough			29
	1		

TEXAS—centinued.		WEST VIRGINIA—continued.	
Ca	908.		ses.
Plagne (bubonic)—Galveston	1	Me isles	8
Scarlet fever	42	Searlet fever.	
Smallpox	45	Smallpox	13
Trachoma	5	Typhoid fever:	
Typhoid fever	17	Elkins	9
VERMONT.		Seattering	5
Chicken pox	45		
Diphtheria	-	WISCONSIN.	
Measles		Milwaukee:	
Mumps		Cerebrospinal meningitis	1
Pneumonia		Chieken pox	58
Scarlet fever.		Diphtherit	100
Smallpox		German measles	1
Typhoid fever		Influenza	1
Whooping cough		Measles	9
		Scarlet fever	36
WASHINGTON.	1	Smallpox	12
Chicken pox		Tuberculosis	19
Diphtheria		Typhoid fever	1
Influenza	3	Whooping cough	13
Measles		Scattering:	
Mumps		Cerebrospinal meningitis	4
Pneumonia	3	Chicken pox	92
Scarlet fever		Diphtheria	85
Smallpox		Influenza	23
Tuberculosis		Meusles	92
Typhoid fever	9	Poliomyelitis	4
Whooping cough	11	Searlet fever	
WEST VIRGINIA.		Smallpox	
Diphtheria:		Tuberculosis	0
	-		
Wheeling	8	Typhoid fever	3
Wheeling	8 26	Typhoid fever	
Scattering	26	Whooping cough	148
Scattering	26		148
District of Columbia and Kentucky	26 Re	whooping cough	148
District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca	Re ses.	whooping cough	148 ves.
District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox	26 Ress. 24	whooping cough	148
District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria.	26 Ress. 24 35	whooping cough. ports for Week Ended Nov. 27, 1929. KENTUCKY—continued. Preumonia. Scariet fever:	148 ses. 45
District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria. Influenza.	26 Ress. 24 35 1	whooping cough. ports for Week Ended Nov. 27, 1929. KENTUCKY—continued. Pneumonia. Scariet fever: Hopkins County.	148 ses. 45
Scattering District of Columbia and Kentucky DISTRICT OF COLUMBIA. Chicken pox Diphtheria Influenza. Measles.	26 Ress. 24 35 1	whooping cough. cports for Week Ended Nov. 27, 1929. KENTUCKY—continued. Pneumonia. Scariet fever: Hopkins County. Jefferson County.	148 8es. 45 8
Scattering District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria Influenza. Measles. Scarlet fever.	26 Ress. 24 35 1 11 22	whooping cough. control for Week Ended Nov. 27, 1929. KENTUCKY—continued. Pneumonia. Scarlet fever: Hopkins County. Jefferson County. Kenton County.	148 45 8 11 12
Scattering District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria Influenza Measles Scarlet fever. Tuberculosis	26 Ress. 24 35 1 11 22 19	whooping cough. ports for Week Ended Nov. 27, 1929. KENTUCKY—continued. Pneumonia. Scariet fever: Hopkins County Jefferson County Kenton County Scattering	148 ses. 45 8 11 12 27
Scattering District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria Influenta. Measles. Scarlet fever. Tuberculosis. Typhoid fever.	26 Ress. 24 35 1 11 22 19 6	whooping cough. ports for Week Ended Nov. 27, 1929. KENTUCKY—continued. Pneumonia Scariet fever: Hopkins County Jefferson County Kenton County Scattering Septic sore throat	148 45 8 11 12
Scattering District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria Influenza Measles Scarlet fever. Tuberculosis Typhoid fever Whooping cough	26 Ress. 24 35 1 11 22 19	whooping cough. cports for Week Ended Nov. 27, 1929. KENTUCKY—continued. Preumonia. Scariet fever: Hopkins County. Jefferson County. Kenton County Scattering Septie sore throat. Smallpox:	148 45 8 11 12 27 3
Scattering District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria Influenta. Measles. Scarlet fever. Tuberculosis. Typhoid fever.	26 Ress. 24 35 1 11 22 19 6	whooping cough. control for Week Ended Nov. 27, 1929. KENTUCKY—continued. Pneumonia. Scariet fever: Hopkins County. Jefferson County. Kenton County. Scattering. Seattering. Septie sore throat. Smallpox: Bell County.	148 ses. 45 8 11 12 27
Scattering District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria Influenza. Measles. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough	26 Recs. 24 35 1 11 22 19 6 15	Whooping cough Provise for Week Ended Nov. 27, 1929. KENTUCKY—continued. Preumonia. Scariet fever: Hopkins County. Jefferson County. Kenton County Scattering. Septile sore throat. Smallpox: Bell County. Livingston County.	148 8 11 12 27 3 11 8
Scattering District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria Influenza. Measles. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough KENTUCKY. Cerebrospinal meningitis—Muhlenberg County.	26 Ress. 24 35 1 11 22 19 6	Whooping cough Provise for Week Ended Nov. 27, 1929. KENTUCKY—continued. Preumonia. Scariet fever: Hopkins County Jefferson County Kenton County Scattering Septic sore throat Smallpox: Bell County Livingston County Ohio County	148 ses. 45 8 11 12 27 3
Scattering. District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria. Influenta. Measles. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough. KENTUCKY. Cerebrospinal meningitis—Muhlenberg County. Chicken pox.	26 Rec. 24 35 1 11 222 19 6 15	whooping cough. cports for Week Ended Nov. 27, 1929. KENTUCKY—continued. Preumonia. Scariet fever: Hopkins County. Jefferson County. Kenton County Scattering. Septie sore throat Smallpox: Bell County. Livingston County. Ohlo County. Scattering.	148 ses. 45 8 11 12 27 3 11 8 19
Scattering. District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria. Influenta. Measles. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough KENTUCKY. Cerebrospinal meningitis—Muhlenberg County. Chicken pox. Diphtheria:	26 Rec. 24 35 1 11 222 19 6 15	Whooping cough Provise for Week Ended Nov. 27, 1929. KENTUCKY—continued. Preumonia. Scariet fever: Hopkins County Jefferson County Kenton County Scattering Septic sore throat Smallpox: Bell County Livingston County Ohio County	148 8 11 12 27 3 11 8 19 16
Scattering. District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria. Influenza. Measles. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough. KENTUCKY. Cerebrospinal meninglitis—Muhlenberg County. Chicken pox. Diphtheria: Jefferson County.	26 Rec. 24 35 1 11 22 19 6 15 1 30	whooping cough coports for Week Ended Nov. 27, 1929. KENTUCKY—continued. Preumonia. Scariet fever: Hopkins County. Jefferson County. Kenton County Scattering. Septic sore throat. Smallpox: Bell County. Livingston County. Ohlo County. Scattering. Tonsillitis.	148 8 11 12 27 3 11 8 19 16
Scattering. District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria. Influenta. Measles. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough KENTUCKY. Cerebrospinal meningitis—Muhlenberg County. Chicken pox. Diphtheria:	26 Recsess. 24 35 1 1 1 22 19 6 15 1 30 31	whooping cough county Castering Seatering Septies see throat Small pox: Bell County Livingston County Chiefering Seattering Seattering Septies see throat Small pox: Bell County Livingston County Co	148 45 8 11 12 27 3 11 8 19 16 8
Scattering. District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria. Influenza. Measles. Scarlet fever. Tuberculosis Typhoid fever. Whooping cough KENTUCKY. Cerebrospinal meningitis—Muhlenberg County. Chicken pox. Diphtheria: Jefferson County. Warren County.	26 Rec. 24 35 1 1 1 22 19 6 15 1 30 31 15	Whooping cough Provise for Week Ended Nov. 27, 1929. KENTUCKY—continued. Case Pneumonia. Scariet fever: Hopkins County. Jefferson County. Kenton County Scattering Septie sore throat Smallpox: Bell County. Livingston County. Ohlo County Scattering. Tousillitis. Trachoma: Har'an County.	148 8 8 11 12 27 3 11 8 19 16 8 1
Scattering. District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria. Influenta. Measles. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough KENTUCKY. Cerebrospinal meninglitis—Muhlenberg County. Chicken pox. Diphtheria: Jefferson County. Warren County Scattering	26 Rec. 24 35 1 11 22 19 6 15 1 30 31 15 60	whooping cough cports for Week Ended Nov. 27, 1929. KENTUCKY—continued. Pneumonia. Scariet fever: Hopkins County Jefferson County Kenton County Scattering Septie sore throat Smallpox: Bell County Livingston County Onlo County Scattering Tousilitis. Trachoma: Harian County Pike County	148 8 8 11 12 27 3 11 8 19 16 8 1
Scattering. District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria. Influenta. Measles. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough. KENTUCKY. Cerebrospinal meningitis—Muhlenberg County. Chicken pox. Diphtheria: Jefferson County. Warren County. Scattering. Dysentery.	26 Rec. 24 35 1 11 22 19 6 15 1 30 31 15 60 2	whooping cough cports for Week Ended Nov. 27, 1929. KENTUCKY—continued. Pneumonia. Seariet fever: Hopkins County. Jefferson County. Kenton County Scattering Septic sore throat Smallpox: Bell County. Livingston County. Ohlo County Scattering Tonsillitis. Trachoma: Har'an County. Pike County Tuberculosis:	148 sees. 45 8 11 12 27 3 11 8 19 16 8
Scattering. District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria. Influenza. Measles. Scarlet fever. Tuberculosis Typhoid fever. Whooping cough. KENTUCKY. Cerebrospinal meningitis—Muhlenberg County. Chicken pox. Diphtheria: Jefferson County. Warren County Scattering. Dysentery. Influenza.	26 Rec. 24 35 1 11 22 19 6 15 1 30 31 15 60 2 32	whooping cough coports for Week Ended Nov. 27, 1929. KENTUCKY—continued. Pneumonia. Scariet fever: Hopkins County. Jefferson County Kenton County Scattering. Septic sore throat. Smallpox: Bell County. Livingston County. Ohlo County Scattering Tousilitis. Trachoma: Har'an County. Pike County Tuberculosis: Jefferson County.	148 568. 45 8 11 12 27 3 11 8 19 16 8 1 11
Scattering. District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria. Influenza. Measles. Scarlet fever. Tuberculosis Typhoid fever. Whooping cough. KENTUCKY. Cerebrospinal meninglitis—Muhlenberg County. Chicken pox. Diphtheria: Jefferson County. Warren County. Scattering. Dysentery. Influenza. Malaria.	26 Rec. 24 35 1 11 22 19 6 15 1 30 31 15 60 2 32	whooping cough coports for Week Ended Nov. 27, 1929. KENTUCKY—continued. Pneumonia. Seariet fever: Hopkins County. Jefferson County Kenton County Seattering. Septie sore throat. Smallpox: Bell County. Livingston County. Ohlo County Seattering. Tousillitis. Trachoma: Har an County. Pike County. Tuberculosis: Jefferson County. Seattering.	148 568. 45 8 11 12 27 3 11 8 19 16 8 1 11
Scattering. District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria. Influenza. Measles. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough. KENTUCKY. Cerebrospinal meningitis—Muhlenberg County. Chicken pox. Diphtheria: Jefferson County. Warren County. Scattering. Dysentery. Influenza. Malaria. Measles: Harlan County. Scattering.	26 Re Ses. 24 35 1 11 22 29 6 15 1 30 31 15 60 2 32 1	whooping cough coports for Week Ended Nov. 27, 1929. KENTUCKY—continued. Pneumonia. Seariet fever: Hopkins County. Jefferson County Kenton County Scattering. Septic sore throat Smallpox: Bell County. Livingston County Ohlo County Scattering. Trachoma: Harlan County Pike County Tuberculosis: Jefferson County Scattering. Typhoid fever: Meade County Scattering.	148 568. 45 8 11 12 27 3 11 8 19 16 8 1 11
District of Columbia and Kentucky DISTRICT OF COLUMBIA. Ca Chicken pox. Diphtheria. Influenta. Measles. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough. KENTUCKY. Cerebrospinal meningitis—Muhlenberg County. Chicken pox. Diphtheria: Jefferson County. Warren County. Scattering. Dysentery. Influenta. Malaria. Measles: Harlan County.	26 Re Ses. 24 35 1 11 22 19 6 15 1 30 31 15 60 2 2 3 1 23	whooping cough cports for Week Ended Nov. 27, 1929. KENTUCKY—continued. Preumonia. Scariet fever: Hopkins County. Jefferson County. Kenton County Scattering Septie sore throat Smallpox: Bell County Livingston County. Ohlo County Scattering. Tonsilitis. Trachoma: Harian County. Pike County Tuberculosis: Jefferson County. Scattering. Typhoid fever: Meade County.	148 8 11 12 27 3 11 8 19 16 8 11 11 8 5

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week;

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measies.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
Hawaii (October). Kansas (October). Maine (October). Massachusetts (November). North Carolina (October). Pennsylvania (September). Pennsylvania (October).	1 7 5 6 5 14 14	12 1, 155 119 843 923 1, 162 2, 167	19 39 11 67	3	36 191 239 1,647 71 576 1,611	1 1	6 17 77 4 30 27	889 63 658 299 867 1,981	144 11 60 16 2	15 156 92 83 208 495 460

ANTHRAX.

Maine, Massachusetts, New Jersey, and Pennsylvania.

During October, 1920, one case of anthrax was reported in Maine and two cases were reported in Pennsylvania. During November two cases were reported in Massachusetts. During the week ended November 20, 1920, one case was reported at Lowell, Mass., and one was reported at Bloomfield, N. J.

CEREBROSPINAL MENINGITIS.

City Reports for Week Ended Nov. 20, 1929.

The column headed "Average cases" gives the average number of cases reported during the corresponding week of the years 1915 to 1919, inclusive. In instances in which the information is not available for the full five years, the average includes from one to four years.

Place. Average cases.		1920		Place.	Average cases.	1920		
	Cuses.	Deaths.	Cases.			Deaths		
California: Riverside Illinois: Chicago	0	1	1	New York: Buffalo. New York North Carolina:	0 2	1 5		
Kewanee	(¹) (¹)	1	1	GreensboroOhio: Cleveland	(1)	1	••••••	
Highland Park Minnesota: Duluth	1 0	ī	1	Memphis Nashville Wisconsin:	0	1		
Missouri: St. Louis New Jersey:	(1)	1	1	Milwaukee	(1)	1		
Bayonne Kearny Newark	0 (1)	1 1		•				

Average less than 1.

DENGUE.

Savannah, Ga.-Week Ended Nov. 20, 1929.

During the week ended November 20, 1920, seven cases of dengue were reported at Savannah, Ga.

DIPHTHERIA.

See Telegraphic weekly reports from States, p. 2975; Monthly summaries by States, p. 2979, and Weekly reports from cities, p. 2987.

INFLUENZA. City Reports for Week Ended Nov. 20, 1920.

Place.	Cases.	Deaths.	Place.	Cases,	Deatl
Alabama:			New Hampshire:		
Birmingham		1	Portsmouth		
Birmingham		1	New Jersey:	1	
California:					1
San Francisco	3		Jersey City		
Stockton		-1	Kearny	1	
Colorado:			Newark	4	
Denver		1	Trenton	2	
Connecticut:			New York:		
Bridgeport	1		Buffalo		1
New Britain			Cortland	1	
	-		Jamestown		
Waterbury	4		New York.	22	
District of Columbia:			New 1 ork		
Washington	4		Saratoga Springs	6	
Georgia:			Ohio:		
Atlanta	. 7	2	Cincinnati	2	
Illinois:			Cleveland	1	
Chicago	20	4	Columbus		
ndiana:	-		Mansfield	1	
Muncie	1	1	Toledo		
lowa:			Oklahoma:		
	1		Tulsa	1	
Council Bluffs		*******		1	
Des Moines	1		Pennsylvania:		
Kansas:			Philadelphia	1	
Parsons	1		Rhode Island:		
Maryland:			Pawtucket		
Baltimore	11	1	South Dakota:		
Massachusetts:	••	- 1	Sioux Falls	5	
Poston	6	1	Tennessee:		
Quiney	ĭ		Memphis		
	i	1	Texas:		
Winthrop	1	1	Dallas	10	
Michigan:	-			13	
Detroit	5	1	Utah:		
Flint	1		Salt Lake City	1	
Highland Park	1		Virginia:		
dinnesota:			Richmond	1	
Municapolis		1	Roanoke	1	
dissouri:		-	Wisconsin:	-	
Kansas City	1	.1	Racine		
St. Charles	2		4444.544		

Springfield		1			

LEPROSY.

New Orleans, La.-Week Ended Nov. 20, 1920.

During the week ended November 20, 1920, one death from leprosy was reported at New Orleans, La.

LETHARGIC ENCEPHALITIS.

California and Kansas.

During October, 1920, one case of lethargic encephalitis was reported in Kansas, and during the week ended November 20, 1920, one case was reported at San Francisco, Calif.

MALARIA.
City Reports for Week Ended Nov. 20, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alabama: Birmingham	1 2 2 2	i i	Georgia: Atlanta. Louisiana: Alexandria. New Orleans Texas: Beaumont. Dallas.	2 4 1	

MEASLES.

See Telegraphic weekly reports from States, p. 2975; Monthly summaries by States, p. 2979; and Weekly reports from cities, p. 2987.

PELLAGRA.

City Reports for Week Ended Nov. 20, 1920.

During the week ended November 20, 1920, one death from pellagra at Birmingham, Ala., one at Savannah, Ga., and one at Charleston, S. C., were reported

PLAGUE.

Human Cases of Plague Reported.

Place.	Period covered.	Cases.	Deaths.	Remarks,
Florida:	1920. May 31 to Aug. 31.	10	4	
r ensacoia	Sept. 1 to Dec. 4	0	ő	
Louisiana: New Orleans	1919. Oct. 22 to Dec. 31	12	4	
	1920.			
	Jan. 1 to Apr. 30	0	0	
	May 1 to Aug. 31	7	3	
	Sept. 1 to Dec. 4	0	0	
Texas:				
Beaumont	June 19 to Aug. 20	14	5	
	Aug. 21 to Dec. 4	0	0	
Galveston	June 8 to Nov. 14	17	11	
	Nov. 15 to Dec. 4	0	0	
Port Arthur	July 7	1	1	From Galveston

Plague-Infected Rodents.

Place.	Period covered.	Rodents found plague infected.
Florida: Pensacola	June 28 to Sept. 19. Sept. 20 to Dec. 4.	31 0
Louisiana: New Orleans	November and December	308
	January to November	269 0 1
Texas:	***** U	
Beaumont	July 1 to Oct. 25	123
Galveston	June 21 to Nov. 30	C4 0
Port Arthur	Oct. 25	î

PNEUMONIA (ALL FORMS).

City Reports for Week Ended Nov. 20, 1920.

Place.	Cases.	Deaths.	Place.	Cases.
1.1			Massachusetts:	
labama: Birmingham		4	Boston	25
Mobile		5	Brockton	1
Montgomery	2		Brookline	1
rizona:	-		Cambridge	7
Tucson		1	Chelsea	
rkansas:			Chicopee	
Little Rock	- 2		Clinton	2
North Little Rock	-	·····i	Danvers	1
alifornia:		-	Easthampton	1
Alameda	1		Everett	1
Furnica			Fall River	3
EurekaLos Angeles	31	6	Haverbill	2
Oakland	1	5	Holyoke	1
Pasadena	î	1	Leominster	3
Sacramento	2	. 2	Lowell	2
San Bernardino		ĩ	Lynn	2
San Diego	. 1	î	Malden	
San Francisco	17	8	Malden	
Stockton		2	Methuen	
olorado:		-	Methuen New Bedford	1
Colorado Springs	5	2	Newton	î
Denver	4,9	14	North Adams	
onnecticut:		14		
Bridgeport	4	3	Pittsfield Plymouth	
Hartford		3	Quincy	
Hartford New Britain	1	2 2	Somerville	3
New Haven	1	2	Southbridge	3
New Haven	4	2	Springfield	2
Waterbury		-	Wakefield	ī
istrict of Columbia: Washington		14	Winthrop	î
Washington		14	Worcester	7
eorgia:	1	7	Michigan:	
Atlanta			Battle Creek	9
Macon		1 7	Detroit	43
Savannah			Flint	1
inois:	150	4=	Grand Ranide	3
Chicago East St. Louis	159	45	Grand Rapids Highland Park	1
East St. Louis		6	Ironwood	1
		1	IronwoodIshpeming	4
Evanston	2		Kalamazoo	i
Freeport	********	1	Marquetta	2
Galesburg		1	Marquette Muskegon	2
Jacksonville		3	Pontiac	2
Evanston Freeport Galesburz Juckson ville La Salle		1	Port Huron	-
Moninoach		1	Saginaw	
Oak Park Rockford	3	********	Minnesota:	
Rocklord		1		2
Rock Island	4 7	1	Duluth	1
Springheld	7	1	Minneapolis	1
diana:			St Poul	
Bedford		1	St. Paul	
BrazilElkhart	********	1	Cape Girardeau	
Elkhart	********	1	Konses City	13
Fort Wayne		2 2 2 2	Kansas City	13
Gary		2	St. Charles	1
Hammond	1	2	St. Joseph	
Huntington		2	Montana:	
		4	Montana:	
La Fayette		1	Butte	********
La Fayette South Bend Terre Haute		1	Great Falls	4
Terre Haute		2	Missoula	
va:			Nebraska:	
Dubuque	1		Lincoln	1
Dubuque Mason City		1	Omaha	
nsas:			New Hampshire:	
Kansas City	9		Keene	1
			Manchester	
Topeka		1	Nashua	
entucky:		1	Portsmouth	1
Louisville	1	11	New Jersey:	
misiana:			Atlantic City	1
Lake Charles		1	Bloomfield	2
New Orleans		10	Elizabeth	
aine:			Gloucester	2
Lewiston		. 2	Hackensack	2
ryland:		_	Harrison	1
Baltimore	22	14	Hoboken	1
Cumberland	3		Jersey City	2

PNEUMONIA (ALL FORMS)—Continued.

City Reports for Week Ended Nov. 20, 1920-Continued.

Place.	Cases,	Deaths.	Place,	Cases.	Deaths.
New Jersey—Continued.			Ohio-Continued.		
Kearny	3	1	Mansfield		1
Montelair		2	Newark		1
Morristown.	1	1 4	Piqua	1	1
Newark	42	5	Toledo		
Newark		i	Youngstown	3	
Orange	2	1	Zanesville	0	
Passaic		1	Oklahoma:		1
Paterson	1		Oklahoma;	1.41	
Rahway		3	Oklahoma City		1
Trenton	16	5	Tulsa	1	
New York:		1	Pennsylvania:		
Albany	4		Philadelphia	95	4
Binghamton	7	1	Rhode Island;		
Buffalo	27	5	· Cranston	1	
Cortland	2	1	Pawtucket		
Glens Falls	2		Providence		
Jamestown	2	1	South Carolina:		1
Lackawanna	12	1	Charleston		
Lockport.	1		Spartanburg		
Middletown	i		South Daketa:		
Mount Vernon	2	1	Sioux alls		1
Mount vernon	2	1		. 5	
Newburgh		115	Tennessee:		1
New York	269	110	Memphis	*******	
North Tonawanda	1		Nashville	1	1
Peekskill		1	Texas:		1
Rochester	8	4	Dallas	10	
Rome	2		El Paso		
Saratoga Springs	3	1	Galyeston		
Schenectady		1	Temple	1	
Syracuse	6	5	Waco		
Trov		3 1	Virginia:		1
White Plains	1	1	Alexandria		
Yonkers	4	3	Petersburg		
North Carolina:	-		Portsmouth		
Charlotte		1	Richmond	********	
Greensboro		2	Roanoke	1	
Phio:		-	West Virginia;		*******
	0		Wheeling		
Akron	9		wheeling		
Barberton		1 2	Wisconsin:		
Cincinnati	2		Beloit	1	*******
Cleveland	. 8	12	Green Bay		
Columbus		4	Kenosha		
Dayton	1		Milwaukee	8	
Findlay	1	1	Racine		
Lima		2	Wansau		

POLIOMYELITIS (INFANTILE PARALYSIS).

City Reports for Week Ended Nov. 20, 1920.

The column headed "Average cases" gives the average number of cases reported during the corresponding week of the years 1915 to 1919, inclusive. In instances in which the information is not available for the full five years, the average includes from one to four years.

Place	Aver-	1920		Place.	Aver-	1920		
Place	age cases.	Cases.	Deaths.		cases.	Cases.	Deaths	
Illinois: AltonChicago	0	1 3		Montana: Missoula New Hampshire:	0	1	******	
Massachusetts: Boston	10	2		Nashua New York:	0	1		
Newburyport	0	4	1	Jamestown	0	1		
Newton Plymouth	(3)	1	i	New York North Dakota:	11	3	3	
Somerville	(2)	1		Fargo Washington;		1		
Michigan: Saginaw	0	1		Spokane		1		

¹ Excluding 1916, an epidemic year.

² Average less than 1.

RABIES IN ANIMALS.

Kansas City, Mo., and Tulsa, Okla.

During the week ended November 20, 1920, one case of rabies in animals was reported at Kansas City, Mo., and one was reported at Tulsa, Okla.

RABIES IN MAN.

Stockton, Calif.-Week Ended Nov. 20, 1920.

During the week ended November 20, 1920, one death from rabies in man was reported at Stockton, Calif.

SCARLET FEVER.

See Telegraphic weekly reports from States, p. 2975; Monthly summaries by States, p. 2979; and Weekly reports from cities, p. 2987.

SMALLPOX.

City Reports for Week Ended Nov. 20, 1920.

The column headed "Average cases" gives the average number of cases reported during the corresponding week of the years 1915 to 1919, inclusive—In instances in which the information is not available for the full five years, the average includes from one to four years.

Place	Aver-	19	20	Place	Ave-	1	920
Pace	cases.	Cases. Deaths.		Face	cases.	Cases.	Deaths
Alabama:				Iowa—Continued.			-
Birmingham	(1)	1		Des Moines	2	1	
Mobile	0	i		Dubucue.	(1) 2	25	
California:				Marshalltown	(,)	23	
Alameda	0	1		Sionx City	2	30	
Los Angeles	1	i		Kansas:		30	
Riverside	0	3		Kansas City		2	1
Sacramento	0	19		Porsons	8	1	
San Diego	0	10		Parsons	U		
		11		New Orleans	(1)	60	
San Francisco	(1)	11		Maine:	(1)	22	
Santa Cruz	0	4					1
Stockton	0			Leviston		1	
Colorado:	10	-		Waterville		4	
Denver	12	21		Michigan:	-		!
Pueblo	0	3		Battle Creek	0	40	
District of Columbia:	413			Detroit	7	24	
Washington	(1)	1		Grand Rapids	(1)	1	
Georgia:	1 .1			Eault Ste. Marie	0	1	
Atlanta	1	6		Minnesota:			
Idaho:				Duluth	0	4	
Boise	(1)	4		Minneapolis	6	94	
Illinois:				St. Paul	15	10	
Bloomington	0	3		Winona	0	14	
Chicago	(1)	6		Missouri:			
East St. Louis	0 1	2		Kansas City	20	11	
Evanston	0	4		St. Louis	1	10	
Kewanee		1		Montana:			
Rockford	0	2		Butte	4	1	
Springfield	(1)	2		Missoula	0 }	2	
Indiana:	- 1	- 1		Nebraska:	-	-	
Bedford	0	7		Lincoln	2	2 7	
Fort Wayne	17	2		Omaha	13	7	
Hammond	(1)	4		New York:	-1	-	
Huntington	0			Ne v York	0	2	
Indianapolis	7	7		North Carolina:	-	-	
Kokomo	4 .		1	Winston-Sa'em	0	1	
Mishawaka		4		North Dakota:	-		
South Pend	3			Fargo	(1)	8	
Terre Haute	0	3		Grand Forks		10	
owa:				Ohio:			
Cedar Rapids	0			Akron	3	11	
Clinton	0			Ashtabula	0	2	
Council Bluffs	(1)	2		Canton	1	6	
Davenport	81	1 1		Cleveland	8	4	

Average less than 1

SMALLPOX-Continued.

City Reports for Week Ended Nov. 20, 1920-Continued.

Pilose	Aver-		920	Please	Aver-	11	920
Place.	cases. Case	Cases,	Deaths.	Place.	cases.	Cases.	Deaths
Ohio—Continued. Columbus.	(1)	.1		Utah: Salt Lake City	2	23	
Hamilton Lancaster Lima	0	13 1 23		Vermont: Rutland Virginia:	0	7	
Lorain	(¹)	9 2		Roanoke Washington:	(1)	1	
Steubenville	(1)	9		A berdeen	2	2 2	
Toledo Oklahoma: Muskogee	2	,		SeattleSpokaneTacoma	11	34 13	
Tulsa Oregon:		î		Wisconsin: Green Bay	1	1	
Portland South Carolina:	9	4	••••••	Janesville La Crosse	(1)	12	
Charleston Columbia South Dakota:	0	1		Madison	5	17	
Sioux Falls	0	3		Superior	1	i	

Average less than 1.

TETANUS.

City Reports for Week Ended Nov. 20, 1920.

During the week ended November 20, 1920, one fatal case of tetanus was reported at Fall River, Mass., two cases were reported at New York, N. Y., and one case was reported at Philadelphia, Pa.

TRICHINOSIS.

San Francisco, Calif.-Week Ended Nov. 20, 1920.

During the week ended November 20, 1920, one case of trichinosis was reported at San Francisco, Calif.

TUBERCULOSIS.

See Telegraphic weekly reports from States, p. 2975, and Weekly reports from cities, p. 2987.

TYPHOID FEVER.

City Reports for Week Ended Nov. 20, 1920.

The column headed "Average cases" gives the average number of cases reported during the corresponding week of the years 1915 to 1919, inclusive. In instances in which the information is not available for the full five years, the average includes from one to four years.

	Aver-	1920			Aver-	1920		
Place.	cases.	Cases.	Deaths.	Place.	age cases.	Cases.	Deaths.	
Alabama: Birmingham Mobile Arkansas: Fort Smith Hot Springs Little Rock	(¹) (¹) 2	3	2 1	California; Long Beach. Los Angeles. Oakland Sacramento Colorado; Denver.	(¹) 3 (¹) 0	2 1 2 1	1	

Average less than 1.

TYPHOID FEVER—Continued. City Reports for Week Ended Nov. 20, 1920—Continued.

Place.	Aver-	1	920	Place.	Aver-	1920		
Frace.	cases.	Cases.	Deaths.	Place.	cases.	Cases.	Death	
Connecticut:				New Mexico:			1	
Bridgeport	2	1		Albuquerque	(1)	4		
Bristol	0	1		New York:				
New Britain	0	1		Albany	5	2		
New Haven	2	5	1	Bunalo	2	2		
District of Columbia: Washington	4	2	2	g Junestown	2	4		
Georgia:	,		-	New York	27	28		
Atlanta	. 2		1	Rochester	(1)	2		
Minois:			1	Rome. Schenectady	63	1	****	
Chicago	16	5	1	Syracuse	(1)	1		
Danville	(1)	4		North Carolina:	.,			
East St. Louis	0	1		Raleigh Winston-Salem	0		1	
Kewanee	2	1		Winston-Salem	2	1		
Mattoon		1		North Dakota:				
Rock Island	(1)	1		Fargo	0	1		
Springfield	(1)	1	1	Ohio:				
Indiana:	(.)			Akron.	2	3	*****	
Bedford	0	2	1	Alliance	0	2	*****	
Elkhart	0	3		Canton	1	2		
Fort Wayne	0	i		Cincinnati	(1)	î	*****	
Huntington	0		1	Cleveland	2	4		
Indianapoils	3	1	1	Columbus	1	3		
Terre Haute	- 0	1		Findley	0	1		
owa:				Lancaster	0			
Cedar Rapids Cansas:	0	2		Lima Springfield	5	1		
Topeka	1			Springfield	2	1		
Centucky:		1		Oklahoma:				
Louisville	1	2		Oklahoma City	1	2		
ouisiana:		-		Tulsa Oregon:		3		
New Orleans	4	5	1	Portland	(1)	1		
faine:				Pennsylvania:	()	- 1		
Bangor	0	1		Allentown	(1)	1		
Biddeford	0	1		Contesville	(1)	1		
Lewiston	******	1	******	Columbia	0	2		
Rollimore	9			Frie	(1)	1		
Baltimore Cumberland	(1)	i		Farrell	0	1		
lassachusetts:	(-)			Mahanov City Mewlville	0	1		
Boston	3	2		Philadelphia	10	5		
Brockton	(1)	1		Reading	2	ĭ		
Cambridge	1	1		Warren	0	1		
Clinton	0	1		Washington	(1)	1		
Fall River	4	2		Williamsport	(1)	1		
Lynn	(1)	2		Rhode Island:				
Taunton	(1)	2		Pawtucket	0	2		
fichigan:	(-)	•		South Carolina: Charleston		2		
Battle Creek	0	9		Columbia	(1) 2	1		
Detroit	8	2	1	Tennessee:	(.)	1		
Flint	2	2		Knoxville	(1)	1		
Kalamazoo	(1)	1		Memphis	2	4		
Port Huron	0	1		Texas:				
Saginaw	1	2	2	El Paso	1	1		
Duluth	(1)	2		Utah: Salt Lake City	0			
Minneapolis	1	3		Vermont:	2	1		
St. Cloud	il	1		Rutland	0			
St. Paul	(1)	2		Virginia:	-			
issouri:	-			Alexandria	0	1		
£t. Joseph	0	1		Lynchburg	(1)	1		
St. Louis	16	4		Petersburg	0	1		
ontana:	0			Portsmouth	(1)	1		
Butte		1		Richmond	2	2		
ebraska:	0			Roanoke Washington:	1	1		
Lincoln	0	1		Everett	0	1		
Omaha	(1)	î		Seattle	2	4		
ew Hampshire:		-		Spokane	0	i		
Keene	0	1		West Virginia:				
ew Jersey:				Huntington	0	1		
Elizabeth	2	1		Wheeling	2	2		
Jersey City	1	2 2 2				1		
Newark	(1)	2						
A TURIOU.	11	21	1 1					

TYPHUS FEVER.

Austin, Tex.

One case of typhus fever was reported at Austin, Tex., December 1, 1920.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS. City Reports for Week Ended Nov. 20, 1920.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	isles.		rlet er.		ber- osis.
Chy.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Aberdeen, Wash	21,392				1					
Akron Ohio	93,604	37	11		2		2		2	
Alameda, Calif	28, 433	3	4	1						
Alameda, Calif,Albany, N. YAlbuquergue, N. Mex	106,632	******	3		8	*****	2		2	
Albuquerque, N. Mex	14, 509	8	6	*****	2	*****		*****	3	
Alexandria, La	16, 232	3	*****	*****	*****			******		*****
Mexandria, Va	17, 959	6	15		19	*****	2		1	
Allentown, Pa	65, 109	5	2	*****	19	*****	-			
Illiance, Ohio	19,581 23,783	5	6		*****	*****	1	*****	1	
Alton, Ill	59,712						i			
Altoona, Pa	10, 200	3	2				1			
	10,631	3	1				11			
Ann Arbor Mich	15,041	10	6				1			
Appleton, Wis	18,005		1							
Arlington, Mass	13,073	2	4		4				1	
Ann Arbor, Mich Appleton, Wis Arlington, Mass Asbury Park, N. J Ashtabula, Ohio	14,629	4								
Ashtabula, Ohio	22,008	3	1		1				*****	
tenison, Kans	16, 785 196, 144		1	*****			1		*****	
Atlanta, Ga	196, 144	54	14		2		5	1	1	
Atlanta, Ga	53, 515 19, 776	10	1				1	*****	1	****
Attlebaro, Mass	19,776	7	. 1	*****	1		*****		1	
aburn, Me	16,607	3		*****	1	*****		*****		
Anburn, Me Aurora, Ill Austin, Tex	34, 795	10	1		2	*****	1	******		
lustin, Tex	35,612	6		*****		*****	16	*****	31	
Baltimore, Md	£94,637	193	.56	4	3 9		2		2	
Bangor, Me	26, 958 14, 137	9			9	*****			-	
Barberton, Ohio	30, 159	1	8		2	*****	3			*****
Battle Creek, MichBayonne, N. J.	72, 204	******	- 8	*****	2	*****	3		4	****
Regeon N V	11,674	1		******		******				
Beacon, N. Y	10, 437	3	*****		*****					
Beaumont, Tex	28, 851	15								
Beaver Falls, Pa	13,749									
Bedford, Ind	10,613	6								
Belleville, N. J	12,797		. 3							
sellingham, Wash	34, 332						2			
Beloit, WisBerlin, N. H	18, 547	3							2	
Berlin, N. H	13,892	9						*****	1 2	
Bethlebem, Pa	14,353		1		1		7	*****	2	
Beverly, Mass	22, 128 17, 760	6					····i	*****		****
Biddeford, Me	17,100		- 4		23		i	******	*****	*****
Billings, Mont	15, 123 54, 834	18			89		3			****
Hemingham Ale	189,716	56	4		00		4		7	****
Birmingham, AlaBloomfeld, N. J	19,013	3	i		*****	*****	4			
Bloomington, Ill	27,462	5					2			
Bloomington, Ind	11,661	2	1				3			
duefield, W. Va	16, 123		5		4		3			
loise, Idnho	35,951	- 5								
loston, Mass	767, 813	192	53	4	10		18	1	40	1
raddock, Pa	22,060		2		2		1			
Bradford, Pa	1 14, 544				1		2			
Brazil, Ind	10, 472	6			*****		1		*****	
Bridgeport, Conn	124,724	26	10	1			11		3	
Bristol, Conn	15,318	3	1	*****						
rockton, Mass	69, 152	8	2	*****	5	*****		*****	2	
Brookline, Mass	33,525	9		*****	*****	*****		*****	2	****
Brunswick, GaBuffalo, N. Y	10,984	121	94	0	77		17		18	
HIHMO, N. Y.	475, 781	131	94	19	77		16		10	

¹ Population Apr 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City Reports for Week Ended Nov. 20, 1920-Continued.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	sles.	Sea	rlet er.		be r - osis.
City.	(estimated by U. S. Census Bureau).	from all causes,	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Burlington, Vt	21,802	3					2		2	
Butler, PaButte, Mont	28,677				70	*****	12		1	
Butte, Mont	44,057	20			.0	*****	*****		1	
Cadillac, Mich	114, 293	29	5		3		4		1	
ambridge, Massanton, Ohioape Girardeau, Mo	10,158 114,293 62,566	13	8		5		5		2	
ape Girardeau, Mo	11,146	6	3							
arbendale, Pa	19,597 10,795		4		16		1			
arlisle Pa	10,795				1	*****	1	*****	*****	
edar Rapids, Iowaentralia, IIIhambersburg, Pa	38, 033 11, 838		1				i			
entralia, III.	12,475	2	6							
chanute, Kans	12,968	1								
harleston 8 C	12,968 61,041 31,060 40,759	26	1	1			1			
harleston, W. Va	31,060		5							
Charlotte, N. C	40,759	8	5	····i	21		1		5	
Chelsea, Mass	40,400	8	4	1	16		1		2	
Chester, Pa	41,857	2	6			*****	1		-	
heyenne, Wyo	2 547 201	576	363	is	103	2	143	3	186	****
hanute, Kans. harleston, S. C. harleston, W. Va harlotte, N. C. helsea, Mass. hester, Pa heyenne, Wyo hicago, Ill. hicopee, Mass.	11,320 2,547,201 29,950	6	8		103		1		3	
incinnati Ohio	414,248	88	39	1	1		24 74	1	9	
leveland, Ohio	692, 259		68	1	6			4	22	1
linton, Iowa	692, 259 27, 678 1 13, 075	******					1			
linton, Mass	1 13, 075	2			53		9			
Incopee, Mass Incinnati, Ohio Ieveland, Ohio. Iinton, Iowa. Iinton, Mass Oatesville, Pa Ooffeyville, Kans. Oolorado Springs, Colo	14,998	10	5		1		3			***
Olegyille, Kans	38 065	20	1	1	1				6	
olumbia S C	18, 331 38, 965 35, 165 220, 135		i		3					
olumbus, Ohio	220, 135	72	21	2	1		5		5	
oncord, N. H	24,808	2			10		2			
Solumbia, S. C	15, 876 10, 789		2				1			
Corpus Christi, Tex Cortland, N. Y Coshecton, Ohio Council Bluffs, Iowa	10,789	3					1		2	
Cortland, N. Y	13,321 11,887	5	1		3			*****	-	
Cosnocion, Unio	31,838	9				******	5			
Youington Ky	59,623	1 13	1				6			
Tanston, R. I.	26,773	2 2								
Crawfordsville, Ind	11,443 26,686	2					1			
himberland, Md.	26,686	. 8	3				1		6	
Dallas, Tex Danville, III	129,738	37	32	1	1		3 2		2	1
Danville, III	32,969	. 4	6	*****			-			
Danville, Va Davenport, Iowa	40 618	****b***	1	*****	*****					
	20, 183 49, 618 128, 939	29	10		1		3		5	
Dedham, Mass	1 10,618	1								
Dayton, Orno Dedham, Mass Denver Colo. Des Meines, Iowa Detreit, Mich Dover, N. H Dubeis, Pa	268, 439 104, 052	75	23	2	71		4			
Des Meines, Iowa	104,052		7	7	2		10	6	33	
Detroit, Mich	619, 648 13, 276	206	112	1	9		109	0	33	
Dover, N. H.	13,276	5	1	*****	1	*****				
Dubois, Pa Dubuique, Iowa. Dubuique, Minn. Dunkirk, N. Y. Durham, N. C. East Chicago, Ind. East Ceveland, Ohio. East parternation Mass	40,096	*******	i				3			
Duluth Minn	97,077	18	25	1	2		6	1	2	
Dunkirk, N. Y	21,311	1 2	5	1 2	1					
Durham, N. C	21,311 26,160	0	11				2		2	
East Chicago, Ind	30,286	9						1	*****	
East Cleveland, Ohio	13,864		2	******					1	
	10,656	*******	i				1		î	
East Providence R I	30, 854 18, 485		i		2		2			
Easton, Pa. East Providence, R. I. East St. Louis, III.	77,312	18	1 0	2			4		1	1
Eau Claire, Wis	18,887						2			
Elgip, III	28,562	10	4							
Elizabeth, N. J	88, 830	18	9	1			6	1	2	1
Elkhart, Ind	22, 273	8	1				7			
El Paso, Tex	69, 149	41	1				1 .	*****	*****	1
Eau Claire, Wis Elgin, Ill. Elizabeth, N. J. Elkhart, Ind. El Paso, Tex. El Wood, Ind. Englewood, N. J. Erie, Pa Eureka, Calif.	111,028 12,603	3	1.		1					
Erie. Pa	76,592		31		10		19		4	
Erie, Pa Eureka, Calif	15, 142 29, 304	5					6			
Evanston, Ill	90 904	1 0	1 4	1	1	1		1	1	1

¹ Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City Reports for Week Ended Nov. 20, 1920-Continued.

- 1	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	sles.		rlet er.		ber- osis.
City.	(estimated by U. S. Census Burgau).	fr m all causes.	Cases.	Deaths.	Cases,	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Evansville, Ind	76, 981	32	23				2 2			. 1
Everett, Mass. Everett, Wash. Fairmont, W. Va. Fall River, Mass. Fargo, N. Dak Farrell, Pa. Findler, Obio	40, 160	11	1				2		1	
Fairment W Va	37, 235 16, 111	******	2						1	
Fall River, Mass	129, 828	: 33	9	1	25	1	7		9	
Fargo, N. Dak	17.872	6			1		2			
Farrell, Pa	1 10, 190 1 14, 858	7	2				10		1	
Flint, Mich	57, 386	16	16				13			
Findlay, Ohio	21, 486		3							****
Fort Scott, Kans Fort Smith, Ark	10, 564 29, 390	9	14			*****	1			
Fort Wayne, Ind.	78, 014	16	2		1		i		4	
Fort Wayne, Ind Fostoria, Ohio Frankfort, Ind	78, 014 10, 959	5					1			
Frankfort, Ind	10, 103	1 7	2				1	*****		
Fremont Nebr	19, 844 10, 080	. 2	2				1			
Freeport, III. Fremont, Nebr. Fremont, Ohio.	11,034	5					3			
alesburg, Ill	24, 629 42, 630	6								
lalesburg, III lalveston, Tex lardner, Mass	17, 534	13	1.				1		5	
lary, Ind.	56,000	7	8				2			
lary, Ind	13, 915 17, 160 11, 375	0								
lens Falls, N. Y llens Falls, N. Y lloucester City, N. J Grand Forks, N. Dak	17, 160	7			*****		1			
Frand Forks, N. Dak	16, 342	0	10		*****				*****	
	132, 881	32	34	1	1		7		4	
ranite City, Ill	15,890	3					3			
reat Falls, Mont	1 13, 948	5 8	2	*****	7		2		1	
reenfield, Mass	30, 017 12, 251		2				6		3	
ranite City, III. reat Falls, Mont reen Bay, Wis. reenfield, Mass reensburg, Pa	20, 171	2 7								
reensburg, Pa	15, 881	2	2				2		*****	
Jackensack, N. J	19,594 17,412	- 6	4	*****	1		2		1	*****
Tamilton, Ohio	41,338	17	2				1			
Iamilton, Ohio Iammond, Ind Iannibal, Mo	27,016	19	9	2			6			
farrishurg Pa	22, 399 73, 276	3	5		1		7	*****		
Iarrison, N. J.	17, 345		1							
Tartford, Conn	112,831	32	14	2			8		5	
Ingleton Pa	112,831 49,180 23,981	14	5	1	3		3			
libbing, Minn.	17,550		2				i			
fannibal, Mo farrisburg, Pa farrison, N. J fartford, Conn. faverhill, Mass fazleton, Pa fibbing, Minn. flighland Park, Mich	33, 859	11	10		2		3			
lighland Park, Mich Joboken, N. J. Jolland, Mich Jolyoke, Mass Jot Springs, Ark Juntington, Ind Juntington, W. Va Jutchinson, Kans Judependence, Mo.	78, 324	16	1		1		1			
Tolvoke Mass	13, 459 66, 503 17, 690	10	2	1					1	
fot Springs, Ark	17, 690	8	1		1					
Iuntington, Ind	10,982	8					6			
Iuntington, W. Va	47, 686 21, 461	22	1 4				1 2			
ndependence, Mo	11,994	1								
ndependence, Mondianapolis, Ind	11, 994 283, 622	72	8	1	3		32	1	6	1
ronwood, Mich	15, 035 16, 710	3	1		3		2	*****	3	
shpeming Mich	1 12, 448	0	2				i		0	
thaca, N. Y.	16,017	4	3		1				1	
acksonville, Ill	15,506	12	1		1		4			
ndianapolis, Ind ronwood, Mich rvington, N. J. shipetning, Mich thaca, N. Y acksonville, Ill amestown, N. Y anesville, Wis.	37, 431 14, 411	8	4				2		*****	****
efferson City, Mo	13,712	4								
efferson City, Moersey City, N. Johnstown, Pa	312, 557 70, 437		22		3		4		12	
ohnstown, Paoplin, Mo.	70, 437	******	12		4	*****	2 3			
oplin, Mo	33, 400 50, 408 102, 096	10	4				16			
Kalamazoo, Mich Kansas City, Kans	102,096		15		1		3		4	
Kansas City, Mo Kearny, N. J Keene, N. H	305, 816	92	9	2	9		14	2	4	
carny, N. J	24, 325 10, 725	5	3				6		1	

¹ Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City Reports for Week Ended Nov. 20, 1920-Continued.

City.	Popula- tion as of July 1, 1917 (estimated by U. S. Čensus Bur sau).	Total deaths from all causes.	Diphther:a.		Measles.		Serriet fever.		Tuber- culosis.	
			1.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
		-	-0	-	0	-	0	-	0	-
Kenosha, Wis	32, 833		. 3				1			
Kenosha, Wis	32, 833 13, 607 59, 112 21, 929	2	3		3		1 7			
Knoxville, Tenn	59, 112		. 8	1			4		4	4
Kokomo, IndLackawanna, N. Y		9	6		26	1	3	1	2	
La Favette Ind	21, 481	5			20				i	
Lake Charles, La	14,930	6		1						1
Lake Charles, La Lancaster, Ohio Lancaster, Pa	21, 481 14, 930 16, 086 51, 437 12, 332	5				*****				
La Salle III	12 332	4	13				1 2			
La Salle, Ill			1	1		*****		*****		
Lawrence, Kans	13, 477 102, 923 119, 363 20, 947	1	1				1			
Lawrence, Mass	102, 923	21	3	1	3		8		4	3
Leavenworth, Kans	119,363	3	5	*****		*****	1 2			
Leominster, Mass.	21, 365	9				*****	2	*****	1	
Leominster, Mass.	99 061	2 8	2		20				3	3
Levington Ky	41,997	12					1		1	2 2
Lima, Ohio. Lincoln, Nebr	37,145	13	2 2		1		5			- 3
	41, 997 37, 145 46, 957 10, 473 58, 716	13	l î		*****		3		1	1
Little Rock, ArkLockport, N. YLogansport, IndLong Beach, Calif	58,716		10		20	*****	3		10	*****
Lockport, N. Y		3					1		1	
Logansport, Ind	21, 338 29, 163 38, 266 535, 485	3	1				6			
Lorgin Obio	29,163	13	2 5				1	*****	****	*****
Lorain, OhioLos Angeles, Calif	535, 485	161	67	2	51	*****	13		103	18
Louisville, Ky	2401 SEIN	65	32	2			11	******	6	
Lowell, Mass. Lynchburg, Va	114 366	29	9		81	1	10		7	1
Lynchburg, Va	33,497	4	2	1						
McKeesport Pa	48 200	. 20	10	1			3		5	1
Lynn, Mass. Mc Keesport, Pa	33, 497 104, 534 48, 299 20, 795	*******	2 2 5 2		2		1		2	
	46, (99)	17	5				2			2
Madison, Wis Mahanoy City, Pa Malden, Mass	31, 315 17, 709 52, 243 15, 859	8	2				2			1
Malden Mass	59 942	7	4 9				3		3	····i
Manchester, Conn. Manchester, Conn. Manchester, N. H. Manitowoc, Wis. Mankato, Minn. Mansfield, Ohio Marinette, Wis.	15, 859	3							i	
Manchester, N. H	79,607	23	18	1			2			1
Manitowoc, Wis	13,931						2			
Mancfeld Ohio	23 051	3 5		1			1			
Marinette, Wis	1 14, 510		*****		1		1		*****	
NI COL SUPER A SECTION ASSESSMENT OF THE PROPERTY OF THE PROPE	23, 051 14, 510 19, 923 24, 129	5	3				2			
Marion, Ohio	24, 129	1					1			
Marquette, Mich	12,800	1					1			
Martinsburg, W. Va	12,584		4							
Marshalltown, Iowa. Martinsburg, W. Va Mason City, Iowa. Mattoon, Ill.	12, 555 14, 519 12, 984 14, 938 12, 764	11	1	1			5			
Mattoon, Ill	12,764						1 .		1	
Medford Mass	13,568 26,681	8	1				3		2	
Mendville, Pa Medford, Mass Melrose, Mass Memphis, Tenn Meriden, Conn	17, 724	3	î				i		i i	
Memphis, Tenn	17, 724 151, 877 29, 431	53	31	1	2		5 .		7	5
Meriden, Conn	29, 431		3				9			
diddletown N V	14,320	2	1		7 49		1 .			
Middletown, Chio	15,890 16,384	4	i		40		1			
weriden, Conn Methuen, Mass. Middletown, N. Y. Middletown, Ohio. Mitwaukee, Wis. Minneapolis, Minn.	445,008	111	69	5	7		97	1	22 31	5
dinneapolis, Minn	445,008 373,448 17,083	87	13	3	1 .		23 .		31	57
dishawaka, Inddissoula, Mont	17, 083 19, 075	6					3 .			
dobile, Ala	50, 201	28	2				2			1
Ionessen, Pa.	23,070						1			
fonessen, Pafonmouth, Ill	23,070 10,346 13,698	4								
fonroe, La	13,698	3	6				2 .			
Jontgomery Ala	37, 887 44, 039	13	1		11 .		2			2
dontgomery, Aladorgantown, W. Vadorristown, N. J	14, 444 13, 410	6			4					
4 4 4	10 410	11	1		. 1.					

Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City Reports for Week Ended Nov. 20, 1920-Continued.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	sles.		ret cr.		be r - osis.
City.	(estimated by U. S. Census Bur au).	all causes.	Cases.	Deaths.	Cases.	Deaths	Cases.	Deaths.	Cases.	Deaths
Moundsville, W. Va	11, 513 20, 709 37, 991 25, 653	1								
Mount Carmel, Pa Mount Vernon, N. Y	20,709		2							
Mount Vernon, N. Y	37,991	12 12	5						1	
funcie, Ind	17,713	5	6				1			
fuscatine, Iowafuskegon, Mich	27, 434	7	8				5			
	27, 434 47, 173	7	4	1			1			
uskogee, Okta anticoke, Pa. ashua, N. H. ashville, Tenn. ewark, N. J. ewark, Ohio.	23, 811 27, 541 118, 136	******	5		10		7			1
ashua, N. H	27, 541	11					7			
ashville, Tenn	118, 136	37	11				3		1	
ewark, N. J.	418, 789 30, 317	101	38	1	9		30		39	1
ow Bedford Moss	191 622	23	9	3			2		5	
ew Britain Conn	121,622 55,385	10	10		2	1	2 7		9	
ew Brunswick, N. J.	95 955		14	******					*****	12.0
ewburgh, N. Y	29, 893	6	1				5		1	1
ewburyport, Mass	15, 291	3					*****			
iewark, Ohio. 'ew Bedford, Mass 'ew Britain, Conn 'ew Brunswick, N. J. 'ewburgh, N. Y. 'ewburyport, Mass 'ew Castle, Ind 'ew Hayen, Conn	15, 291 14, 144 152, 275 21, 199		10		3		8			
ew Haven, Conn	21 100	37	15:				14		3	
ew London, Conn	377, 010	134	10		- 33		5 2		10	
ew Orients, La.	30.585	5	15 1		- 33		î		18	
ew Haven, Connew London, Connew Orleans, La. ew Orleans, La. ewport, R. I. ewion, Mass. ew York, N. Y. iagara Falls, N. Y.	44, 343 5, 737, 492 38, 466		i		110		i		3	000
ew York, N. Y	5, 737, 492	1,166	381	26	62	1	176	4	2 262	9
iagara Falls, N. Y	38,466	8	19	2	1		32		1	
	31,969		1				2			
orth Adams, Massorthampton, Mass	1 22, 019	10	1		2		1			
orthampton, Mass	20,006 11,248	6	1				2		1	
orth Braddook Pa	15, 684	4	3			*****	1	*****		
orth Little Rock, Ark	15, 515	5	0				2			
orth Attleboro, Mass orth Braddock, Pa orth Little Rock, Ark orth Tonawanda, N. Y	14,060	2	3							
orwalk, Conn	27, 332 21, 923	9	7				1			1
orwalk, Conn	21,923	5	6.				1			
orwood, Ohio	23, 269	1			1		3			
akland, Califak Park, III	206, 405	39	3		1		5 8		5	1
il City, Pa	27, 816 20, 162 97, 588	. 40	7		31					
	97, 588	25	23		91					
ld Forge, Pa.	15, 479		1		11					
ld Forge, Palean, N. Y	16, 927	3								
maha, Nebr	177, 777	46	14	1			4			
range, Conn	177, 777 14, 393 33, 636	7	2							
range, N. J	36, 549	6	10		1		1		1	
aducah Ky	25 178	4	5	*****						
arkersburg, W. Va	21,050	8	4							
lean, N. Y. maha, Nebr range, Conn range, N. J. shkosh, Wis aducah, Ky arkersburg, W. Va arsons, Kans.	21, 050 15, 952 49, 620		8				1			
asadena, Califassaic, N. Jasterson, N. J	49,620	18	1		1				1	
assaic, N. J	74, 478	18	2		2		6		2	
akterson, N. J. awtucket, R. I. eekskill, N. Y.	140, 512	10	11		6					
nolvekill N V	69, 666 19, 031 72, 184	18	2	1	2					
eoria. III.	72, 184	28	9	1	-		16			
eoria, IIIerth Amboy, N. J	42,646 !	9	5	1	1		2			
tersburg, Vahiladelphia, Pahillipsburg, N. Jhoenixyille, Pahillipsburg, N. Jhoenixyille, Pahillipsburg	25,817	12	6						1	
niladelphia, Pa	1, 735, 514	443	95	9	5		115	4	59	
illipsburg, N. J	-15,879 11,871	1								
oua Obio	14, 275	1	3				1			
ttsburgh, Pa	586, 196		49		30		64		7	
ttsfield, Mass.	39,678	15	1		30		2		7 3	
ttston, Pa	39,678 18,975		1							
qua, Ohio. ittsburgh, Pa. ttsfield, Mass. ittston, Pa. ainfield, N. J.	24,339	7	2							
	14,001	4								
ontiac, Mich	18,006 16,727	11					19			
ontiae, Michort Chester, N. Yort Huron, Mich	18, 863	3 8	2 3						1	
ort Huron, Mich	64,720	17	3	1	9		3	*****	1	* * * *
ortland, Meortland, Oreg	308, 399	49	10		11		10	*****	2	****
				******	î		****	DARRES.	-	

¹ Population Apr. 15, 1910.

² Pulmonary tuberculosis only.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City Reports for Week Ended Nov. 20, 1920-Continued.

	Popula- tion as of July 1, 1917	Total deaths	1	ther:a	Me	asles.		ariet ver.	Tu	ber- osis.
City.	by U. S. Census	from all causes.	es.	Deaths.	es.	Deaths.	es.	Deaths.	es.	Deaths.
3	Bureau).		Cases.	, g	Cases.	Dec	Cases.	De	Cases.	Des
Portsmouth, Va	40,693	15	3	1	4		3		2	
Portsmouth, Va Pottstown, Pa Pottsville, Pa	16, 987		5		. 3		2			
Providence, R. I	22,717 259,895	62	26		23	1	14		1	
Pueblo, Colo	56,084	62	3	1	2		1			
Oniney III	36 832	7								1
Quincy, Mass. Racire, Wis. Rahway, N. J. Raleigh, N. C.	39, 022 47, 465 10, 361	1 4	6						1	
Racine, Wis	10 361	12	25		4		11		1	
Raleigh, N. C.		8	7		28		2			
Reading, Pa. Reno, Nev.	111,007		4				1			
Reno, Nev	.1 10.019	4	2							
Richmond, Ind	25, 080 158, 702	7 39	44			*****	11			
Riverside, Calif.	20, 496	5	1							1
Roanoke, Va	46, 282	13	8		2		6			1
Rochester, N. Y	264, 714	52	116	1			18	2	13	- 1
Rock Island, Ill	56, 739 29 452	17 10					2 2			
Rocky Mount, N. C.	12,673	9							*****	
Rome, Ga Rome, N. Y Rutland, Vt	15,607		2						2	
Rome, N. Y	24, 259		1	1	16		3		1	
Rutland, Vt. Sacramento, Calif	15,038 68,984	17	3		1				2	2
Saginaw, Mich	56, 469	17 17	11	1			1		2	
St. Charles, Mo	10, 498	2	1				2			
St. Cloud, Minn	12,013		16				4			
St. Joseph, Mo St. Louis, Mo St. Paul, Minn	86, 498 768, 630	28 184	165	10	4		22		25	
St. Paul, Minn	252, 465	50	30	3			22 11		8	4
Salina, Kans. Salt Lake City, Utah.	19 470	5	4				5 5		2	
Salt Lake City, Utah	121,623	25 13	2		91		5			3
San Diego, Calif.	56, 412	29	2	*****			1	******	8	4
San Bernardino, Calif San Diego, Calif Sandusky, Ohio Sanford, Me	121, 623 17, 616 56, 412 20, 226	9					1			
Sanford, Me	11,217	0								*****
San Francisco, Calif Santa Barbara, Calif	471,023	128	11	4	4		26		23	7
Santa Cruz, Calif	15, 360 15, 150	6	1	1	*****					*****
Saratoga Springs, N. Y	13,839	5			1				1	
Saugus, Mass Sault Ste. Marie, Mich	10, 210	. 5					5			
Savannah. Ga	14, 130 69, 250 103, 774	29	2	2	*****		9	1	2	
Savannah, Ga. Schenectady, N. Y. Scranton, Pa. Seattle, Wash Shamokin, Pa.	103, 774	20	5		2		6		9	4
eranton, Pa	149, 541		14				7 9			
leattle, Wash	366, 445		31		1		9 2			
haron, Pa	21, 274 19, 156		10	******	1		6			*****
sheboygan, Wis	28, 907		1							
Sharon, Pa. Sheboygan, Wis Sioux City, Iowa	58, 568		1				2 2			
Sioux Falls, S. Dak	16,887 88,618	20	2	1	1		2		1	
outh Bend, Ind.	70, 967	8	10		2		5		2	i
outhbridge, Mass	70, 967 14, 465 21, 985	8 2					5			
partanburg, S. C.	21,985	7	1				1			
poxane, wash	157, 656	20	2 2		9		6			
pringfield, Mass	108,668	31	3				22 15	2	7	4
potentoriage, stass portanburg, S. C. pokane, Wash pringfield, III pringfield, Mass. pringfield, Mo. pringfield, Ohio.	62, 623 108, 668 41, 169 52, 296	19	- 1							2 4 2 1
pringfield, Ohio	52, 296	12	1		6 .		9		3	1
teelton, Pateubenville, Ohio	28 250	10	1				1			****
tillwater, Minn.	15, 759 28, 259 10, 198 36, 209	1								
tockton, Calif	36, 209	13	2				1			
unbury, Pa	16, 661	19	4		1 .			···i		*****
vracuse, N. V.	47, 167 158, 559	13 36	18		10		14	1	8	3
acoma, Wash,	158, 559 117, 446 36, 610	30	4		1					
	44 444	400	-				-	1	2	9
tenbenville, Onto tidlwater, Minn tockton, Calif. unbury, Pa. unbury, Pa. unperior, Wis yracuse, N. Y. facoma, Wash. aunton, Mass.	36, 610 13, 904	13	7				7		2	•

¹ Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City Reports for Week Ended Nov. 20, 1920-Continued.

	Popula- tion as of July 1, 1917	Total deaths	Dipht	ther a.	Mea	sles.		rlet er.		ber- osis.
City.	(estimated by U. S. Census Bureau).	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
iffin Ohio	12,962	2								·
oledo, Ohio	202,010	59	43	2			- 11	1		
opeka, Kans	49,538	9	4		100		10.		1	0000
renton, N. J.	113,974	34	6	1			3		3	1
rinidad, Colo	14, 413				20		1			
rov. N. Y	78,094	18	4		19		3		3	
ueson, Aria	17,324	13								
ulsa, Okla	32,507	10	14				2		2	
niontown, Pa	21,600		2		2		7		-	
alleje, Calif	13, 803	1	-		_					
	13, 805						10	*****		
ancouver, Wash	15, 954		1				10	*****		
irginia, Minn		******	2	******				*****		
aco, Tex	34,015	15	-					*****	1	
akefield, Mass	12,947	5						*****	1	
alla Walla, Wash	26,067		1				1			
arren, Pa	15,083	*******		*****			1	*****	*****	****
ashington, D. C	369,282	119	38	2	15		16		13	
ashington, Pa	22,076		1		58					
aterbury, Conn	89, 201	. 16	9				1		3	
atertown, Mass	15, 188	2					1		1	
aterville, Me	12,903						1			
ausau, Wis	19,666	5								
ogtfield Mass	18, 769	3								
est Hoboken, N. J.	44,386	7					1			
est New York, N. J.	19, 613		9							
est Orange, N. J.	13, 964		3				2			
beeling, W. Va	43,657	22	18		4		5			
hite Plains, N. Y.	23, 331	4	10						2	
ichita, Kans	73, 597	22	18	1	*****		12		2	****
ilkes-Barre, Pa	78, 334	20	3		18	*****	4		ī	
	23, 839		0		1		2			
ilkinsburg, Pa			9		1		11			
illiomsport, Pa	34, 123					*****	4			
ilmington, Del	95, 369	34	3				6			
inona, Minn	1 18,583	******	1	*****	*****		1		*****	
inston-Salem, N. C	33, 136	. 20	5						4	
inthrop, Mass	13, 105	4			2		1			
oburn, Mass	16,076	2								
orcester Mass	166, 106	53	4		5		6		8	
akima, Wash	22,058						1			
onkers, N Y	103,066	• 15	16		2				4	
ork. Pa	52,770		14				6		1	
oungstown, Ohio	112, 282		5	1	4		21			
nesville, Ohio	31,320	7	1	-			2			

Population Apr. 15, 1910.

FOREIGN AND INSULAR.

JAMAICA.

Infectious Disease Reported Present.1

During the week ended November 6, 1920, 301 cases of alastrim or Kaffir pox were reported present in the Island of Jamaica.

JAPAN.

, Mortality-Taiwan Island (Formosa)-1916-1918.

The following table shows the mortality from certain causes occurring in the Island of Taiwan (Formosa), Japan, during the years 1916, 1917, and 1918. The population for these years was approximately 3,512,000, 3,563,000, and 3,582,000, respectively. About 90 per cent of the population is Chinese.

Direcco		aber of dea	ths.
Disease.	1916	1917	1918
Typhoid fover	279	206	215
Typhus fever	11.346	9,729	8, 292
Smallbox	19	0,120	8, 202
Mersles	536	352	438
Sewlet fever	1	3	2
Whooping cough	80	69	264
Diphtheria and croup	52	54	54
Influenza	367	262	6, 320
Cholera,	9	2	1
Dysentery	63	52	56
Plague	2	3 !	
Tuterculosis, pulmonary	5,009	5, 431	6, 533
Tubercular meningitis	105	85	110
Tubercular enteritis	1, 281	1,063	1,246
Tuberculesis of other organs	97	101	87
Lepros7	45	34	37
Syphilis. Other infectious diseases.	440	535	495
Distomiasis,	445 25	2,420	2,755
Caneer	361	289	20
Other malignant tumors	22	6	400
Rheumatism.	150	155	143
Beriberi	642	699	677
Glycosuria	29	39	41
Other irregularity of nutrition	526	408	401
Other general diseases of whole body.	15	135	22
Acute and chronic alcoholism.	2	3	- 1
Meningitis.	3, 101	2,927	3, 143
Hemorrhage and softening of brain	1,429	1,507	1,200
Eclampsia other than that arising from pregnancy and childbirth	4,785	3,920	3,646
Other nervous diseases	876	817	1,046
Organic diseases of heart	1,079	264	1,000
Other diseases of circulatory organs	120	62	98
Acute bronchitis	3, 436	2,406	3,438
Chronic bronchitis	2,244	3,558	4,697
Pneumonia and bronchial pneumonia	8,810	10,306	22, 144
Other diseases of respiratory organs.	6,625	6,647	8,052
Diseases of stomach	7, 130	6, 485	7,441

¹ Public Health Reports, Sept. 3, 1920, p. 2132; Sept. 24, 1920, p. 2208; Oct. 15, 1920, p. 2491; Oct. 29, 1920, p. 2603; Nov. 19, 1920, p. 2814; Dec. 3, 1920, p. 2643.

	Number of deaths.			
Disease.	1916	1917	1918	
Diarrhea and enteritis Diarrhea and vomiting Ankvlostomiasis. Typhilitis and iliae phiegmon. Hernia and stoppage of intestines. Hardening of the liver Other diseases of digestive organs. Peritonitis, nonpuerperal. Nephritis. Other diseases of male genito-urinary organs Peritonitis, nonpuerperal. Nephritis. Other diseases of male genito-urinary organs. Puerperalfever Other diseases arising from pregnancy and childbirth Diseases of skin, bones, and muscles. Malformation and weak constitution. Special diseases of infants. Semile debility. Suicide. Poisoning. Deaths from other external causes Diagnosis not clear Causes unknown.	13 104 156 1,148 3,175 802 1,552 301 286 627 598 4,086 198 3,416	8,785 20 41 83 108 1,386 1,356 2,437 277 304 607 702 3,874 1,328 3,136 655 1,578 9,091	9, 92; 33; 86; 12: 18: 1, 299 1, 500 2, 606 699 4, 061 1, 644 2, 856 73; 42; 1, 299 11, 521	
Total	102, 519	97, 949	124,677	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER. Reports Received During Week Ended Dec. 10, 1920. CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China: Antung Changsha Chuncking	Oct. 25-31 Oct. 10-16do	1	1	Present.
Tientsin	Oct. 3-9	15		
Chosen (Korea): Fusan Seoul Do	Oct. 22-28	100	24 68 1	Previous cases bacteriologically verified.
India	Oct. 17-23 Oct. 10-16	2 1	1	July 25-Aug. 7, 1920; Deaths 2,687. Aug. 21-Sept. 4, 1920 Deaths, 5,872.
Japan: Taiwan Island (Formosa) Philippine Islands: Provinces—	June 21-30	6	5	-
Cagayan Masbate	Sept. 12-18 July 4-10	1	·····i	
Siam: Bangkok	Sept. 4-18	4	3	

PLAGUE.

Algeria:	Oct. 1-31	1		
Brazil:		•		
Ceara	Sept. 5-25		4	
Chile:				
Antofagasta	Nov. 1-7	3		
China:				
Hongkong	. Sept. 28-Oct. 23	3.	3	
India				Sept. 26-Oct. 2, 1920: Cases, 3,016
Karachi	Oct. 10-16	3	2	deaths, 1,998.
Madras Presidency		848	554	
Rangoon	. Oct. 3-16	8	8	
Mexico:	1			
Cerritos	. Oct. 20-Nov. 10	31	17	
Peru:			1	
Trujillo-Salaverry	. Oct. 18-24	1	1	

¹ From medical officers of the Public Health Service, American consuls, and other sources.

Reports Received During Week Ended Dec. 10, 1920—Continued. SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Pernambuco	Sept. 27-Oct. 17	59	1	
Canada:			80 15	
Nova Scotia Sydney	Nov. 7-20	3		
Ontario—		9		1
Hamilton	Nov. 21-27 Nov. 7-13	2		-
Kingston	Nov. 7-13	5		
Ottawa	Nov. 14-29	13 75		A CONTRACTOR OF THE CONTRACTOR
Toronto	Nov. 14-27	6		
Ceylon: Colombo	Oct. 3-9	8	1	
China:	Oct. 10-164		1	
AmoyChungking	do			Present.
Foochow	Oct. 3-16			Do.
Colombia:				
Santa Marta	Oct. 31-Nov. 13			Do.
Egypt: Alexandria		1 .	1	
	Oct. 28-Nov. 4	1		
France:	0 1 01 11 0	11	100	
Rouen	Oct. 31-Nov. 6	. 1		1
Great Britain:	do			I leaded II
Glasgow	do	S 3	2	July 95-21 1990; Pooths 700
IndiaBombay	Sept. 26-Oct. 2	2	**********	July 25-31, 1920: Deaths, 586. Aug. 1-7, 1920: Deaths, 442. Aug. 15-Sept. 4, 1920: Deaths,
Madras	Cet. 10-23	7	3	Aug. 15, 1920. Deaths, 442.
2120103	Ctt. 10-20			733.
Italy:				100.
Catania	Cct. 25-31	1		In Province, 50 cases.
Messina				Oct. 26-Nov. 1, 1920: Cases, 2 (in
Nanles	Cet. 18-Nov. 7	8	2	Province).
Palermo	Oct. 1-28	236	99	
lapan:				
Taiwan Island (Formosa)	June 1-30	5	5	
Do	July 1-10	5	3	
ava:	,			Post 04 20 1000 Cases 11
West Java	Sept. 24-30.	4	-2	Sept. 24-30, 1920: Cases, 11. deaths, 4.
Madeira:	cept. 21-00.	4		deatus, 1.
Funchal	Oct. 21-30		2	
fexico:				
Chihuahua	Nov. 1-21		3	1
San Luis Potosi	Oct. 31-Nov. 6		1	
Portugal:				
Lisbon	Oct. 24-30		7	The second secon
Russia:				1 4
Riga	Oct. 7-15	1	******	1-
pain:	Now 1 10			
Barcelona	Nov. 1-10 Nov. 7-13		2	1 -
Valencia	Oct. 10-16	1	*********	
Vigo	Oct. 10-10		1	li-
Tunis	Nov. 1-7		. 3	
inion of South Africa:				
Johannesburg	Aug. 1-31	4		
				The second second
	TYPHUS	FEVE	R.	
1			1	
hina: Antung	Oct. 18-24	9	2	
gypt:	Oct. 10-21	9	- 1	
Alexandria	Oct. 22-28	4	1	1
Cairo	Aug. 23-Sept. 2	25	20	
Port Said	Aug. 20-26	1		
reat Britain:	41			
• Dublin	Oct. 24-Nov. 13	12	1	
taly:	Oct of None		_	
Trieste	Oct. 31-Nov. 6	22	1	
		5	1	
apan:	Cat 10 21			
apan: Nagasaki	Cct. 18-31	01		
apan: Nagasaki fexico:		0	1	Prozent
apan: Nagasaki Iexico: San Luis Potosi	Cct. 18-31 Nov. 14-20			Present.
apan: Nagasaki	Nov. 14-20			Present.
apan: Nagasaki Iexico: San Luis Potosi		41		Present.

Reports Received During Week Ended Dec. 10, 1920—Continued. YELLOW FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Yucatan (State)-	Nov. 22-28 Oct. 10-16	8	5	. 29

Reports Received from June 23 to Dec. 3, 1920. CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Rio de Janeiro	June 27-July 3		1	
China:				
Amoy	June 20-Aug. 11		12	
Antung	Aug. 9-15 July 1-Aug. 31	1	1	
Canton	July 1-Aug. 31	5	4	Ave 12 Ol. Descent Oct 2 O
Changsha	Aug. 22-Sept. 18 May 16-24	137	1,319	Aug. 15-21: Present. Oct. 3-9. Present.
Chungking	June 6-Sept. 11		5,322	Sept. 18: Present. Oct. 3-9
Dairen	Sept. 29	4	1	Present and in vicinity.
Foorbow	July 11-24			Present.
Hankow	July 4-17	12	5	
Harbin				Year 1919: Cases, 603. On East-
Hongkong	Aug. 8-14	1	1	ern Chinese R. R. line. At other stations, same line, 190
				cases.
Nanking Shanghai	Sept. 12-25 Aug. 2-29	1	6	Several cases reported at Nan- king University, Aug. 30. Re- ported prevalent among Chi-
				nese, Aug. 30.
Chosen (Korca)				Aug. 1-Oct. 7, 1920: Cases, 21,535;
Chemulpo	Aug. 1-Oct. 7	24	21	deaths, 12,549.
Chinampo	Aug. 1-26	34	23	
Fusan	Aug. 1-Oct. 7	684	493	
Gensan	Aug. 27-Sept. 2	1		
Mokpo	Aug. 1-Sept. 30	28	18	
Seoul	Aug. 1-Oct. 22	1,032	792	
Galicia: Buczacz	Oct. 18			Present.
Greece:	Oct. 13			A researce.
Patras	July 26-Aug. 1			Present in surrounding country.
Zante	Aug. 2-8			Present.
ndia				Apr. 11-May 22, 1920: Deaths,
Bombey	May 2-June 26	85	36	7,049. May 30-June 26, 1920:
Do	June 27-Sept. 18	105	68	Deaths, 3,710. June 27-July 10,
Calcutta	May 2-June 24	439	423	1920: Deaths, 1,711.
Do	July 18-Oct. 2	188	181	
Madras	May 2-June 26	20	13	
Do	July 11-Oct. 9	13	2	
Rangoon	June 27-Sept. 18	22	16	1920: JanCases, 40; deaths, 24.
ndo-ChinaSaigon	Apr. 26-June 13	13	94	Feb.—Cases, 25; deaths, 15.
Do	July 26-Sept. 5	9	5	Mar -Cases, 52: deaths, 10.
<i>D</i> 0	July 20 Sept. S		J	Mar.—Cases, 52; deaths, 30. Apr.—Cases, 204; deaths, 99. May—Cases, 328; deaths, 184. June—Cases, 292; deaths, 201.
lapan:				
Kobe	June 14-27	36	24	Kobe, June 6-13, 34 cases. Moji,
Do	June 28-Oct. 17	409	223	June 6-12, 10 cases. Kochi, June 6-12, 1 case. Hiroshima,
Nagasaki	June 21-27	7		June 6-12, I case. Hiroshima,
Do	June 28-July 18	34	13	June 6-12, 6 cases. Present.
Osaka	June 8 May 22-June 20	60	33	Frescut.
Do	July 11-Oct. 10	1, 414	553	
ava:	auly 11-00t. 10	1, 414	303	
West Java-		1		
Batavia	Apr. 30-June 3	6	2	June 4-17: Present.
Do	June 25-Aug. 12	3	-	

Reports Received from June 26 to Dec. 3, 1920-Continued.

CHOLERA-Continued.

Place.	Date.	Cases.	Denths.	Remarks.
Philippine Islands				May 9-June 26, 1920; Cases, 16;
Manile Islands	May 9-June 26			deaths, 12. June 27-July 17,
Manila	June 27-Sept. 25	1. 2	1	1920: Cases, 63; deaths, 31.
Do	June 21-Sept. 20	9		July 25-31: Cases, 57; deaths, 48.
Provinces-	May 9-15	2		July 20-51. Cases, 51, deaths, 48.
Albay			,	
Batangas	June 27-July 3			
Bohol	May 9-June 26	11	19	
Cagayan	June 27-Aug. 28		21	
Do		1	11. 4	
Cavite	Sept. 5-11			
Iloilo	June 27-July 17	2 000		
Isabela	July 11-Sept 4	- 0		
Laguna	July 4-10	-4	20	
Misamis	July 11-17	40	10	
Nueva Viscaya	July 25-31	49	42	
Pangasinan	July 4-Aug. 7	7	5	
Tarlac	Sept. 12-18	1	1	
Poland:				
Warsaw	Oct. 28	,1	y and the part	Case occurred in employee on river boat plying between Warsaw and Danzig.
Russia			7. 7.0	Reported prevalent in southern
LUSSII				Russia, June 4, 1920.
Grodno	Cet. 18			Present.
Sebastopol (district)				Reported increasing.
Simferopol				Ian -June 1990: Cases 1.262:
Citation of the control of the contr				JanJune, 1920: Cases, 1,262; deaths, 584. South Russia,
				Government of Tauride.
Vilna	Sept. 28	40		Oct. 18: Present.
lam:	Dept. Dest.	-		
Banckok	Apr. 25-June 26	542	343	
Do	June 26-Sept. 3	61	26	
straits Settlements:		-		
Singapore	July 18-Oct. 2	26	24	
umatra:		-	- 1	
Medan	Aug. 20-Sept. 3	1		On local steamship. From Sin-
220000000000000000000000000000000000000				gapore.
Turkev:				9.1
Amassia	Dec. 24	. 1		Asiatic Turkey.
Kaiseri	Dec. 22	1		Do.
Karassi	Jan. 3	-1		Do.
Mamuret-ul-Aziz	Dec. 31	1	1	Do.
Panderma	DecJan	16	6	-0.
Rodosto	Dec. 29	1	9	European Turkey.
Smyrna.	Dec. 22	3	9	Asiatic Turkey.
n vessel:	#700: MM		-	Abdult Links,
S. S. Keketticut	Aug. 2	1	1	U. S. S.: At Shanghai.
Steamship (local)	Aug. 20-Sept. 3	i	1	At Medan, island of Sumatra.
Steamship (total)	Aug. 20 Sept. 3	4	1	From Singapore.
		1117		From Singapore.

PLAGUE.

Algeria:				Sept. 1-30, 1920; Cases, 3; deaths,
Azores:				*
	Oct. 4-20	35	12	Oct. 4, 1920: 5 suspect cases iso-
Do	Nov. 10-16	25	8	lated vicinity of Ponta Del- gada. Oct. 1-31, 1920: Cases, 76; deaths, 27. To Nov. 16:
Ponta Delgada	Oct. 1-26	2		Cases, 110; deaths, 33,
Prazil:				
	Apr. 25-May 22	10	10	
	June 27-Oct. 28	12	6	
Pernambuco	May 3-9	1	1	
	June 28-Aug. 15	32	16	
Porto Alegre	June 27-Aug. 21		2	
British East Africa				Apr. 1-30, 1920: Cases, 22; deaths,
	Apr. 25-June 26	14	12	9.
Do	July 11-Sept. 4	10	5	Present.
	Apr. 25-June 26	104	39	
Do	June 27-Aug. 28	113	72	
	Apr. 25-June 10	14	8	

Reports Received from June 26 to Dec. 3, 1929-Continued.

PLAGUE-Continued.

			1	
Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo	May 25-June 12 June 27-Oct. 16	7 45	37	- 1/
Chile.				Mar. 1-May 31, 1920; Cases, 15 deaths, 2. Plague reported in Departments of Tacna and Tarata.
Antologasta	May 17-June 20 July 5-Oct. 9	5 3		Mar. 1-May 31, 1920: Cases, 7 deaths, 1.
Iquique China:	Mar. 1-May 31	8	1	
Amoy Hongkong Do	June 20-Sept. 18 Apr. 4-June 26 June 27-Aug. 21	90 26	8 70 23	`
Ecuador: Guayaquil	Aug. 16-Sept. 30	9	1	Oct. 16-31, 1920: Cases, 3; deaths.
Egypt				2. Jan. 1-Oct. 14, 1920: Cases, 430
Alexandria	June 18-Oct. 9 Aug. 2-Sept. 26	13	7	deaths, 251.
Suez Do	Aug. 2-Sept. 26 May 13-June 8 July 3-Aug. 4	12	6 3	3 cases pneumonic.
Provinces— Assiout	May 15-June 5 July 2-Sept. 13	7	4	
DoBeni-SouefFayoum	July 2-Sept. 13 July 7-10 June 5	2	i	
Garbieh Do Girgeh	July 1-Oct, 11 Sept. 22.	21 1	17 1	Pneumonic.
Keneh Mariut	May 18 May 18-June 8	19	22	
Minieh Do	July 3–9 May 15 July 13	2	2	Septicemic.
Fiume Great Britain:	Sept. 21	4	2	16
LiverpoolGreece:	June 20-26 Aug. 19-Oct. 14	1 3	1 2	
Chios Dante	Oct. 14	1 2		
Kavalla Nauplia Piræus	July 5-Oct. 3 Aug. 21 June 29-Sept. 20	4 2 12	1	Approximately 20 cases Sept. 9.
SalonikiIndia	Sept. 25-Oct. 8	4		Anr. 18-June 26, 1920: Cases.
Bombay Do	Apr. 18-June 26 June 27-Oct. 25	170 59	135 46	Apr. 18-June 26, 1920; Cases, 12,476; deaths, 9,961. June 27- Sept. 25, 1920; Cases, 29,743;
Karachi	May 2-June 12 May 9-Oct. 9 do	26 79 8,017	19 72 5,731	deaths, 22,604.
Rangeon	Apr. 25-June 26 June 27-Sept. 25	120 243	202	
Indo-China	May 10-June 13 July 26-Aug. 15	9 5	2	Jan. 1-31, 1920: Cases, 42; deaths, 40. Feb. 1-29, 1920: Cases, 41; deaths, 36. Mar. 1-31, 1920: Cases, 79; deaths, 70. Apr. 1-
	July 20-Aug. 15	3	1	Cases, 79; deaths, 70. Apr. 1- 30, 1920; Cases, 69; deaths, 63. May 1-31, 1920; Cases, 87; deaths, 75. June 1-30, 1920; Cases, 72; deaths, 63.
taly: Catania	June 22-July 3	3	.2	Cases, 72; deaths, 63.
ava: East Java				Apr. 23-May 5, 1920: Cases, 7; deaths, 7. Apr. 15-June 16,
West Java— Batavia	July 22-Sept. 23	16	16	deaths, 7. Apr. 15-June 16, 1920: Cases, 8; deaths, 8. Aug. 5-25, 1920: Cases, 4; deaths, 4. Surabaya Residency.
desopotamia: BagdadDo	June 1-30 Sept. 1-39	6	3	convoju menung.

Reports Received from Jure 26 to Dec. 3, 1920-Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Mexico:	1			
Cerritos	Nov. 15	15		State of San Luis Potosi. Pres-
Tampico	July 26-Sept. 27	4	3	ent in vicinity.
Vera Cruz	June 14-20	11	10 1 1.	May 29-July 14, 1920: Cases, 49;
Do	July 18-24	2	2	deaths, 29. Corrected state- ment: From outbreak in May to July 20, 1920—cases, 58;
		42.7	10 :	deaths, 36. Nov. 8-14, 1920: Two plague-infected rodents found.
Dome				Mar. 1-31, 1929: Cases, 46; deaths,
PeruCailao	Mar. 1-Apr. 30	15	7	29. Apr. 1-39, 1920; Cases, 46; deaths,
Do	Aug. 1-31,	13		deaths, 13. In coastal depart-
Lima (city)	Mar. 1-31	5	3	ments.
Do	Apr. 1-31	. 4	4	ments.
Lima (country)	Mar. 1-31		1	
Do	Apr. 1-39	i		
Mollendo	Mar. 1-31	13	9	
Paita	do	- 5	2	
Do	Apr. 1-30	2		
Salaverry	Mar. 1-31		3	
Do	Apr. 1-30			
San Pedro	do	6	1	
Trujillo-Salaverry	May 31-June 29	3	2	
Do	Aug. 30-Oct. 25	- 6	13	1 1 1
Russia:				
Batum	Sept. 28			Prevalent.
Bangkok	Apr. 25-June 5	8	5	
Do	June 28-Aug. 28	6	3	
Straits Settlements:				
Singapore	Apr. 25-June 19	14	13	
Do	July 11-Aug. 7	3	3	May 16-22, 1920: Cases, 2 deaths, 3.
Syria:				n .
Beirut	June 39			Present.
furkey:	Yulu 05 Aug 01			
Constantinople	July 25-Aug. 21	. 7	6	
Uruguay: Montevideo	June 1-30,	: 1	1	

SMALLPOX.

		1	1	1
Algeria:				
Departments—				
Algiers	May 11-Aug. 31	51		City of Algiers, Apr. 1-30, 1920:
Constantine	June 1-Aug. 31	18		1 case. July 1-Aug. 31, 1920:
Oran	May 11-Aug. 31	168		Cases, 4; deaths, 2.
Austria				May 30-June 26, 1920: Cases, 27.
Gratz	July 11-23	5		June 27-July 28, 1920: Cases, 35,
Vienna	May 30-June 26	1		
Do	July 11-28	1		
Azores:				
Ponta Delgada	July 17-Aug. 20	7		
St. Michaels	Aug. 21-27			From Madeira.
Bolivia:	atub. at at			Trong manetras
La Paz	May 2-June 30	10	. 8	
Do	July 1-Sept. 30	18	8	
Brazil:	July 1-sept. 30	10	0	
Bahia	Apr. 25-June 26	5	5	
	June 27-Oct. 2	21	2	
Do				
Pernambuco	Mar. 29-June 27		3	
Do	June 30-Sept. 19		4	
Rio de Janeiro	Apr. 11-June 26		6	
Do	June 27-Sept. 18	92	22	
Santos	Mar. 24-23	1		
Do	July 25-Aug. 15		8	
Sao Paulo	June 21-27		1	
Do	June 27-Aug. 8		2	
British East Africa				Mar. 1-31, 1920: Cases, 107. Apr.
Membasa	May 2-22	2	1	1-30, 1920: Cases, 69. Reported
Do	July 11-17	3		by native inspectors.
Nairobi	May 23-June 26	11	1	
Do	Aug. 1-21	5		
Bulgaria:				
8099	July 11-17	1		

Reports Received from June 26 to Dec. 3, 1920-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada:				
Alberta-				
Calgary	June 3-9	1		
Do	July 4-Oct. 9	6		
British Columbia-	May 16-Aug. 28	4		
Vancouver	May 16-Aug. 28	,		
Manitoba— Winnipeg,	May 29-June 5	3		
Do	Aug. 8-21,	2		
New Brunswick—	2446. 0 24	-		
Bonaventura and Gaspe Counties	Aug. 1-Oct. 31	2		
Carleton County	Sept. 19-25	1		
Gloucester County	May 31-June 26	5		
Do	Sept. 19-Oct. 9	3		
Madawaska County	Oct. 31-Nov. 6	1		
Queens County	July 4-Aug. 21	7		
Restigouche County		******		Sept. 26-Nov. 6, 1920: Cases, 4.
Campbellton	July 1-31	7		
Nova Scotia—			i	
Halifax	do	2		
Sydney	May 31-June 26	2		
Ontario— Cornwall	June 25-30	2		
Fort William and Port	July 11-Oct. 2	1 2		
Arthur.	July 11-0ct. 2	,		
Hamilton	June 13-Nov. 20	13		
Kingston	May 31-Juno 19	4		
Do	Oct. 31-Nov. 6	6		
Montreal	Oct. 24-30	1		
North Bay	June 23-2	1		
Do	July 11-Oct. 23	8		
Ottawa	June 6-26	32		
Do	June 27-Nov. 13	187		
Peterborough	Apr. 18-July 31	33	1	
Prescott	July 11-17 Aug. 1-14	1		Present at Cardinal and Brock-
Sault Ste. Marie	Oct. 24-30.			ville.
Toronto.	June 6-19	13		***************************************
Do	June 26-Nov. 13	34		
Windsor	Aug. 22-Sept. 11	5		
Prince Edward Island—				
Charlottetown	Aug. 12-Oct. 13	1 , 2		
Montreal	June 13-19	1	1	
Do	July 4-Aug. 7	4		
Quebec	June 27-Oct. 2	9		
Saskatchewan-				
Moose Jaw	June 26-30	6		
Do	July 25-Sept. 25	3		
ReginaDo.	June 2-30	1 5		
Saskatoon.	Oct. 3-30 Sept. 5-Nov. 6	9		
Ceylon:	cept. 3-Nov. 0	,		
Celombo	May 9-June 5	2		
Do	Aug. 29-Oct. 16	41	6	
Chile:				
Antofagasta	May 17-23			1 case in interior.
China:				
Amoy	May 2-Oct. 9	4	19	
Antung	May 9-June 13	3	3	
Do Canton	June 21-27 Sept. 1-30	1		Present.
Chungking.	Mor 2 June 0			Do.
Do	May 2-June 9 July 11-Oct. 9	******		Do.
Dairen.	Sept 28-Oct. 4	1		2704
Foochow	May 9-29			Da
Do	May 9-29. July 26-Oct. 2			Do.
Hankow	June 20-26	2		
Harbin	Sept. 27-Oct. 3 Apr. 4-June June 27-July 17 July 19-Oct. 9	1		Year 1919: Cases, 79. On East- ern Chinese R. R. line. At
Hongkong	Apr. 4-June	19	15	ern Chinese R. R. line. At
Do	June 27-July 17	2	2	other stations, 109 cases.
Mukden	July 19-Oct. 9			Present.
Nanking	May 9-June 5 July 4-Oct. 16 May 25-31		*******	Do.
Do	May 25 21			Do.
Tientsin	June 16-29	2		

Reports Received from June 26 to Dec. 3, 1920-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Chosen (Korea):				
Chemulpo	Mar. 1-June 30	69		
Do	July 1-31 Mar. 1-June 30	18	8	
Fusan	Mar. 1-June 30	21	6	-
Do	July 1-31	358	86	
Seoul	Mar. 1-June 30 July 1-31	15	6	
Do	July 1-31	40		
Barranquilla	May 13-July 3 May 31-Oct. 16			Epidemic. Present.
Cuba:	1 01 N 12	5	100	
Antilla Habana	Aug. 24-Nov. 15 July 4	i		From steamship Frank Hennis from Jamaica. Arrived Santi-
Matanzas	Aug. 15-21	1	1	ago June 30, 1920. In vicinity, at Aguacate, Aug. 1-7, 1920: Cases, 12.
Cyprus				August, 1919: Cases, 242; deaths, 51.
Czechoslovakia				May 23-June 26, 1920: Cases, 345;
Moravia	Feb. 1-2	68		deaths, 36.
Danzig Ecuador:	June 20-July 17 Oct. 1-31	9	1	
Guayaquil Egypt: Alexandria	May 14-June 29	53	19	
Do	June 25-Sept. 30	13	4	
Cairo	Apr. 2-June 24	62	23	
Do	July 2-Aug. 19	5		
Port Sald	July 2-Aug. 19 Apr. 2-June 24 July 2-15	22	8	
Do	July 2-15	2	1	
France: Brest	May 15-31	1		
Cette	June 24-39	*****	1	
Nice	June 1-30 May 1-10	3		
Germany	may 1-10	0		Feb. 22-June 12, 1920; Cases, 720.
Berlin	July 26-Sept. 4	1		July 11-Sept. 4, 1920: Cases, 81; deaths, 6, Additional cases, May 26-July 17, 1920; 06; deaths, 2.
Great Britain:	1 00 C 1	7	1	
Edinburgh	Aug. 29-Sept. 4 May 25-June 26	136	22	
Glasgow	July 4-Oct. 30,	178	49	
Do	July 18-Sept. 11	2	49	
Liverpool	June 13-July 19	14	*********	
London	June 13-July 19 Aug. 22-28	5	*********	Oct. 21-30, 1920: Cases, 50. At
Greece:				Mi-kiletown, 6 miles distant.
Saloniki	May 31-June 27	4	1	
Do	July 25-Aug. 15	1	1	Nov. 6, 1920: Approximately 35
				cases.
Jacmel	Nov. 6	1		In vicinity.
Port an Prince	Sept. 22-Nov. 7	50		1- 11 Mary 00 1000; Deather
ndia				Apr. 11-May 22, 1920: Deaths, 7,743. May 30-June 26, 1920: Deaths, 3,861.
Bombay	Apr. 26-June 26	103	45	May 9-15, 1920: Cases, 26; deaths,
Do	June 27-Sept. 4	49	ii	11.
Calcutta	May 2-June 12	101	93	
Do	July 18-Sept. 18	9	8	
Karachi	May 9-June 26	15	12	
Do	June 27-July 10 May 9-June 26	7	15	
Madras	May 9-June 26	27		
Do	June 27-Oct. 9 Apr. 25-June 26	46 35	19	July 1-31, 1920; Cases, 22; deaths,
Rangoon	Apr. 25-June 26 Aug. 8-Oct. 9	35	2	.4.
ndo-China	o-ott. v			a a as some Come sin deaths
Saigon	May 10-June 13	12	3	101. Feb. 1-29, 1920; Cases, 625;
Do	Aug. 3-Sept. 5	'î	î	Jan. 1-31, 1920; Cases, 410; centus, 101. Feb. 1-29, 1920; Cases, 625; deaths, 119. Mar. 1-31, 1920; Cases, 782; deaths, 111. Apr. 1-30, 1920; Cases, 312; deaths, 25. May 1-31, 1920; Cases, 428; deaths, 61. June 1-30, 1920; Cases, 318; deaths, 220.

Reports Received from June 26 to Dec. 3, 1920-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Italy:	Tuly 12 Oct 2	. 91		City and Province God to co
Catania	July 12-Oct. 3	1		City and Province, Sept. 18-26 69 cases in district.
Genoa	May 17-23	12		In Province.
Do	June 14-27 June 28-July 4	20		
Do	June 28-July 4	3		
Messina	May 10-June 27	7	1	Province, May 10-June 27: Cases 168; deaths, 27.
Milan	June 28-Oct. 3 Mar. 1-May 31	14	3	Province: Cases, 35; deaths, 3.
Naples	May 23-June 20	3 7	5 3	
Palermo	May 11-Sept. 30	166	29	
Trioste	Sept. 25-Oct. 2 June 28-Sept. 12	16	5	
Turin	June 28-Sept. 12	2		
Japan:				
Kobe	May 9-June 27	10	5	
Do Taiwan Island	June 28-July 18	7	2	
Taiwan Island	May 1-June 20	40	11	
Tokyo	June 21-July 20 Apr. 21-May 10	14	8	
Java;	Apr. 21-may 10		'	
East Java— Surabaya	Sept. 5-11	1		
West Java	Apr. 16-June 17	91	***********	Apr. 16-June 24, 1920; Cases, 56 deaths, 10. June 25-Sept. 23
Do	July 9-Sept. 23	11	26	1920; Cases, 115; deaths, 28.
Jugo-Slavia	July 9-Sept. 25	11	0	Feb. 1-June 23, 1920: Cases, 2,519
Liberia:				deaths, 561.
Monrovia Madeira;	Nov. 13			Present.
Funchal	June 20-26 July 18-Nov. 6		2	
Malta.	July 18-Nov. 6	1	3	
Malta Manchuria; Mukden	May 1-June 30		3	
Mesopotamia; Bagdad	May 2-8			
Mexico: Chihuahua	Nov. 8-14	1		
Ciudad Juarez	Aug 2-8	i		
Guadalajara	May 1-31. July 1-Oct. 31. July 30.	1		
Do	July 1-Oct. 31	4	1 1	
Laredo	July 30	2		
Mazatlan	May 19-20		1	
Salina Cruz	June 1-30	5	3	
Do San Luis Potosi	Aug. 1-31	1	1	
Do.	May 21-June 6 June 28-Oct. 30	******	12	
Tampico	July 1-31		5	
Broad Cove	Sept. 4-10	1		
Ladle Cove	Sept. 11-17	6		
St. Johns	June 5-11	3		Reported at 2 other localities.
Shoal Harbor New Zealand: Dunedin	July 10-16	7		July 3-16: Present at 4 localities.
Persia: Teheran	Aug. 10-Sept. 20 June 6	15	*********	Present.
Poland				Jan. 1-31, 1920; Cases, 1,895;
Porto Rico:	Jan. 1-31	1,052	228	deaths, 301.
Caguas	Aug. 9-15	1		
Lisbon	May 16-June 28		8	
Oporto	June 27-Oct. 16 Oct. 31-Nov. 6		26	
Portuguese East Africa;	Oct. 31-MOV. 6	1	*******	
Inhambane	Sept. 12-18 Sept. 12-25	1 6		June 1-Aug. 31, 1920: Deaths, 1.
Russia:		-		
Riga	Aug. 1-Sept. 23 Jan. 1-June 30	252	78	May, 1920: Cases, 5. June, 1920: Cases, 7.
	T O.	. 2		
Do	July 1-31 Sept. 1-30	9		

Reports Received from June 26 to Dec. 3, 1920-Continued.

SMALLPOX -- Continued

Place.	Date.	Cases.	Deaths.	Remarks.
pain:	May 19-June 12			1
Barcelona	June 18-Oct. 27		21	i .
	July 16-Oct. 2		2	
Corrumna	July 16-Oct. 2		-	Tule Sport 1000, Coppe 17
Gijon				July-Sept., 1920; Cases, 17. Aug. 1-Sept. 30, 1920; Deaths,
Malaga				Present
Orense, Province	Sept. 6. May 23-June 26			Present.
Valencia	. May 23-June 20	15	3	
Do	July 4-Oct. 30	12	3	
Vigo	May 31-June 26		4	
Do	July 18-Oct. 2		10	
traits Settlements:				
Singapore	May 16-22	1		Received out of date.
weden:				
Stockholm	Sept. 19-Oct. 9	4		
witzerland:				ł
Geneva	May 9-15	7		
yria:				
Aleppo	Aug. 29-Sept. 4			In city and in Armenianorpha
unis:				age.
Tunis	May 25-June 27	6	5	
Do	June 28-Oct. 24	42	18	
urkey:				
Coastantinople	May 16-June 19	7		
Do	June 20-Oct. 16	13		
nion of South Africa:	1			
East London	Sept. 19-25	1		
Johannesburg	May 1-31	23		
* Do	July 1-31	15		f .
n vessels:	July 1 Street	-		
S. S. Bradford	Nov. 4	1		At Vancouver, From Taler
57, 57, 87, 97, 97, 97, 97, 97, 97, 97, 97, 97, 9				At Vancouver. From Talam Peru, via ports in Chil- Mexico, and Peru. Left Talam about 21 days previous to a
S. S. Henry R. Mallory	Oct. 2	1	,	rival at Vancouver. At Habana from Spanish por Vesselleft Vigo, Spain, Sept. P
S. S. Henry R. Mallory	Oct. 2		R.	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. B
	,		R.	At Habana from Spanish por Vesselleft Vigo, Spain, Sept.P
leeria*	,		R.	At Habana from Spanish por Vesselleft Vigo, Spain, Sept.P
lgeria: Departments—	TYPHUS	FEVE	R.	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. P
lgeria: Departments— Algiers.	TYPHUS	PEVE	R.	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. P
lgeria: Departments— Algiers. Constantine.	TYPHUS May 11-Aug. 34 May 21-Aug. 31	FEVE	R.	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Departments— Algiers Constantine Oran	TYPHUS	PEVE	R.	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Pepartments— Algiers Constantine Orau ustria	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31	FEVE	R.	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Departments— Algiers. Constantine. Oran. ustria. Vienna	TYPHUS May 11-Aug. 34 May 21-Aug. 31	FEVE	R.	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Departments— Algiers Constantine Oran ustria Vienna	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26	#4 20 352 65		At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Departments— Algiers. Constantine. Orau. ustria Vienna. elgium: Ghent	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31	FEVE	R	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Departments— Algiers. Constantine. Oran. Ustria. Vienna. elgium: Ghent.	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23	44 20 352 65		At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Departments— Algiers. Constantine. Oran. ustria. Vienna. elgium: Ghent. ermuda: Hamilton.	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26	#4 20 352 65		At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Departments— Algiers. Constantine. Oran vienna elgium: Ghent ermuda: Hamilton	May 11-Aug. 34 May 21-Aug. 31 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23	44 20 352 65	1	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Departments— Algiers Constantine. Ustria. Vienna. elgium: Ghent. ermuda: Hamilton. olivia: La Paz.	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 30	44 20 352 65 10 2	1	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Departments— Algiers. Constantine. Oran. Vienna. elgium; Ghent. ermuda: Hamilton. olivia: La Paz. Do.	May 11-Aug. 34 May 21-Aug. 31 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23	44 20 352 65 10 2	1	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Departments— Algiers. Constantine. Oran. Vienna. elgium: Ghent. crmuda: Hamilton. olivia: La Paz. Do.	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 30 July 1-Sept. 30	44 20 352 65 10 2	1	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Departments— Algiers. Constantine. Oran. ustria. Vienna. elgium: Ghent. ermuda: Hamilton olivia: La Paz. Do. razil: Ceara	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 30 July 1-Sept. 30	44 20 352 65 10 2	1 17 21 4	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Departments— Algiers. Constantine. Orau vienna. elgaim: Ghent. ermuda: Hamilton olivia: La Paz Do. razil: Ceara Do.	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 30	44 20 352 65 10 2	1	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Departments— Algiers Constantine Orau ustria Vienna elejum: Ghent ermuda: Hamilton olivia: La Paz Do razil: Ceara Do ulgaria:	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 39 July 1-Sept. 39 Apr. 25-June 12 July 11-24	444 200 372 65 10 2 7	1 17 21 4	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r
lgeria: Departments— Algiers. Constantine. Oran. Vienna. elgium; Ghent. ermuda: Hamilton olivia: La Paz. Do. razil: Ceara. Do. ulgaria: Solia.	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 30 July 1-Sept. 30	444 200 372 65 10 2 7	1 17 21 4	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. I Feb. 15-June 26, 1920; Cases, 6
lgeria: Departments— Algiers Constantine Oran Vienna elgium: Ghent ermuda: Hamilton olivia: La Paz Do nazil: Ceara Do Magaria:	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 39 July 1-Sept. 39 Apr. 25-June 12 July 11-24	444 200 372 65 10 2 7	1 17 21 4	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r Feb. 15-June 26, 1920; Cases, 6
lgeria: Departments— Algiers. Constantine. Oran. ustria. Vienna. elgium: Ghent. ermuda: Hamilton olivia: La Paz. Do. razil: Ceara Do. ustria: Solia. hile.	May 11-Aug. 31 May 21-Aug. 31 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 28 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 39 July 1-Sept. 39 Apr. 25-June 12 July 11-24 June 20-25	444 200 372 65 10 2 7	1 17 21 4	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r Feb. 15-June 28, 1920; Cases, 6 Mar. 1-June 39, 1920; Case 1,338; deaths, 244.
lgeria: Departments— Algiers. Constantine. Orau. ustria. Vienna elgaim: Ghent. ermuda: Hamilton olivia: La Paz. Do. razil: Ceara Do. ulgaria: Solia hile. Antofagasta.	May 11-Aug. 34 May 21-Aug. 31 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 39 July 1-Sept. 30 Apr. 25-June 12 July 11-24 June 20-25 July 5-11.	44 20 352 65 10 2	17 21 4 2	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r Feb. 15-June 28, 1920; Cases, 6
geria:	May 11-Aug. 31 May 21-Aug. 31 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 30 July 1-Sept. 30 Apr. 25-June 12 July 11-24 June 20-25 July 5-11 May 10-16	44 20 352 65 10 2	17 21 4 2	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r Feb. 15-June 28, 1920; Cases, 6 Mar. 1-June 39, 1920; Case 1,338; deaths, 244.
lgeria: Departments— Algiers. Constantine. Orau. ustria. Vienna. elgium: Ghent. ermuda: Hamilton olivia: La Paz. Do. razil: Ceara. Do. usgaria: Sofia. hile. Antofagasta. Caleta Colosa. Concepcion	May 11-Aug. 31 May 21-Aug. 31 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 30 July 1-Sept. 30 Apr. 25-June 12 July 1-24 June 20-25 July 5-11 May 10-16 Mar. 8-June 28	44 20 352 65 10 2	17 21 4 2	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r Vesselleft Vigo, Spain, Sept. r Feb. 15-June 28, 1929; Cases, 6 Mar. 1-June 39, 1929; Case 1,338; deaths, 241. Present.
geria:	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 39 July 1-Sept. 39 Apr. 25-June 12 July 11-24 June 20-25 July 5-11 May 10-16 Mar. 8-June 28 June 29 Sept. 30	44 20 352 65 10 2	17 21 4 2 39 13	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. I Feb. 15-June 28, 1929: Cases, 6 Mar. 1-June 39, 1929: Case 1,338; deaths, 244.
geria:	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 39 July 1-Sept. 39 Apr. 25-June 12 July 11-24 June 20-25 July 5-11 May 10-16 Mar. 8-June 28 June 29 Sept. 30	44 20 352 65 10 2 7	17 21 4 2 39 13 1 1	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. F. Feb. 15-June 28, 1920; Cases, 6 Mar. 1-June 39, 1920; Cases, 6 1.338; deaths, 244. Present. Oct. 13; Cases, 34.
lgeria: Departments— Algiers. Constantine. Oran. ustria. Vienna elgium: Ghent. ermuda: Hamilton olivia: La Paz. Do. razil: Ceara. Do. ulgaria: Sofia. hile. Antofagasta. Caleta Colosa. Concepcion Do. Coquimbo. Santiago.	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 30 July 1-Sept. 30 Apr. 25-June 12 July 11-24 June 20-25 July 5-11 May 10-16 Mar. 8-June 28 June 28-Sept. 20 Aug. 8-Oct. 7 Mar. 1-June 3	44 20 352 65 10 2	17 21 4 2 39 13 11 86	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. r Vesselleft Vigo, Spain, Sept. r Feb. 15-June 28, 1929; Cases, 6 Mar. 1-June 39, 1929; Case 1,338; deaths, 241. Present.
lgeria:	May 11-Aug. 31 May 21-Aug. 31 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 30 July 1-Sept. 30 Apr. 25-June 12 July 1-24 June 20-25 July 5-11 May 10-16 Mar. 8-June 28	44 20 352 65 10 2 7	17 21 4 2 39 13 1 1	At Habana from Spanish por Vesselleft Vigo, Spain, Sept. F. Feb. 15-June 28, 1920; Cases, 6 Mar. 1-June 39, 1920; Cases, 6 1.338; deaths, 244. Present. Oct. 13; Cases, 34.
lgeria: Departments— Algiers. Constantine. Orau. ustria. Vienna. elgium: Ghent. ermuda: Hamilton olivia: La Paz. Do. razil: Ceara. Do. ulgaria: Sofia. hile. Antofagasta. Caleta Colosa. Concepcion. Do. Coquimbo. Sautiago. Valparalso. hims:	May 11-Aug. 31 May 21-Aug. 31 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 30 July 1-Sept. 30 Apr. 25-June 12 July 5-11 May 10-16 Mar. 8-June 28 June 29-Sept. 20 Aug. 8-Oct. 7 May 2-Sept. 21 May 2-Sept. 24	### 444 200 352 65 10 2 7 7 2 2 11 470 11 470	17 21 4 2 39 13 13 186 29	Mar. 1-June 28, 1920; Cases, 6 Mar. 1-June 28, 1920; Cases, 6 Mar. 1-June 39, 1920; Cases, 6 Cot. 13: Cases, 34. Sept. 40: Cases, 186.
	May 11-Aug. 34 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 30 July 1-Sept. 30 Apr. 25-June 12 July 11-24 June 20-25 July 5-11 May 10-16 Mar. 8-June 28 June 28-Sept. 20 Aug. 8-Oct. 7 Mar. 1-June 3	44 20 352 65 10 2 7	17 21 4 2 39 13 11 86	Mar. 1-June 26, 1920; Cases, 6 Mar. 1-June 26, 1920; Cases, 6 Mar. 1-June 30, 1920; Cases, 6 Cot. 13: Cases, 34. Sept. 40: Cases, 186. Report week ended July 31, 192
lgeria: Departments— Algiers. Constantine. Oran. ustria. Vienna elgium: Ghent. ermuda: Hamilton olivia: La Paz. Do. razil: Ceara. Do. ulgaria: Sofia. hile. Antofagasta. Caleta Colosa. Concepcion Do. Coquimbo. Santiago. Valparaiso hina: Antung.	May 11-Aug. 31 May 21-Aug. 31 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 30 July 1-Sept. 30 Apr. 25-June 12 July 11-24 June 20-25 July 5-11 May 10-16 Mar. 8-June 28 June 28-Sept. 20 Aug. 8-Oct. 7 Mar. 1-June 30 May 2-Sept. 24 July 12-Oct. 17	### 44	17 21 4 2 39 13 13 186 29	Mar. 1-June 28, 1920; Cases, 6, 1,338; deaths, 244. Present. Oct. 13: Cases, 34. Sept. 40: Cases, 186. Report week ended July 31, 192, not received.
lgeria: Departments — Algiers. Constantine. Oran. ustria. Vienna elejaum: Ghent. ermuda: Hamilton olivia: La Paz. Do razil: Ceara. Do utgaria: Solia. hile. Antofagasta. Caleta Colosa. Concepcion Do. Coquimbo. Santiago. Valparalso. hims: Antung. Eastern Chinese Railway.	May 11-Aug. 31 May 21-Aug. 31 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 30 July 1-Sept. 30 Apr. 25-June 12 July 11-24 June 20-25 July 5-11 May 10-16 Mar. 8-June 28 June 28-Sept. 20 Aug. 8-Oct. 7 Mar. 1-June 30 May 2-Sept. 24 July 12-Oct. 17	### 444 200 352 65 10 2 7 7 2 2 11 470 11 470	17 21 4 2 39 13 13 186 29	Mar. 1-June 26, 1920; Cases, 6 Mar. 1-June 26, 1920; Cases, 6 Mar. 1-June 26, 1920; Cases, 6 Cot. 13: Cases, 34. Sept. 40: Cases, 186. Report week ended July 31, 192, not received. At stations on line.
lgeria:	May 11-Aug. 31 May 21-Aug. 31 May 21-Aug. 31 May 11-Aug. 31 Feb. 15-June 26 Sept. 11-Oct. 23 Oct. 18-23 May 2-June 30 July 1-Sept. 30 Apr. 25-June 12 July 11-24 June 20-25 July 5-11 May 10-16 Mar. 8-June 28 June 28-Sept. 20 Aug. 8-Oct. 7 Mar. 1-June 30 May 2-Sept. 24 July 12-Oct. 17	### 44	17 21 4 2 39 13 13 186 29	Mar. 1-June 28, 1929; Cases, 6 Mar. 1-June 28, 1929; Cases, 6 1,338; deaths, 241. Present. Oct. 13; Cases, 34. Sept. 40; Cases, 186. Report week ended July 31, 192, not received.

Reports Received from June 26 to Dec. 3, 1929-Continued.

TYPHUS FEVER-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Chosen (Korea):	T1 22	3		
Chemulpo	Jane 1-30 Mar. 1-Apr. 30	4	1	
SeoulCzechoslovakia	Mar. 1-Apr. 30			Feb. 1-28, 1920: Cases, 88; deaths,
Creenosiovakia				7.
Leipnik	Feb. 22-28	1		Quarantine station.
Panzig	June 20-26	1		Feb. 27-Mar. 27, 1920; Cases, 16.
Do	July 25-31	1	1	
Egypt:	May 7 June 24	338	86	
Alexandria	May 7-June 24 June 25-Oct. 7	141	62	
Cairo	Apr. 2-June 24	867	370	
Do	July 9-Aug. 19	108	68	
Port Said	Apr. 9-June 24	112	53	
Germany				Feb. 22-Mar. 27, 1920; Cases, 23.
Great Britain:				Among troops, 4; among per- sons from Poland, 8. Mar. 28- June 26, 1920; Cases, 96. July 18-Sept. 28, 1920; Cases, 14. Additional cases, June 18-July 10, 16.
Belfast	Oct. 24-Nov.6	4	2	,
Dublin	May 23-June 19	3	1	
Do	Oct. 16-22	23		
Dundee	July 4-10 May 30-June 5	1	1	
Glasgow	May 30-June 5	1	1	
Queenstown	Aug. 1-7			
Greece: Athens	June 27-July 21		5	
Drama	July 12-18.	1		
Patras	June 29-July 4		1	
Piraus	June 29-July 5		1	
Saloniki	Apr. 12-27 June 28-Oct. 10	384 133	42 57	
DoGuatemala:	June 25-Oct. 10	100	91	
Guatemala City	Aug. 9-15		1	
Hungary				Jan. 19-May 30, 1920: Cases, 54.
Budapest	Jan. 10-June 20	28		
Italy:	* *			
Catania	July 10-17 May 16-22	3 5		
Trieste	June 13-Oct. 30	261	17	
Japan:	vanc 19 Oct. 55	201		
Kohe	Aug. 17-23	7		
Nagasaki	May 25-June 27	2	1	
Do	Sept. 13-Oct. 16	4	1	Feb. 1-June 23, 1929: Cases, 691;
Jugo-Slavia				deaths, 92.
East Java—				death, out
Surabaya	June 10-16	1		
West Java-				
Batavia	May 28-June 30	5	1	
Mesopotamia:	Aug. 1-31	1		
Bagdad	Aug. 1-01			
Chihuahua	May 31-June 6		1	
Nogales	Aug. 9-14 June 8-July 8	2		-
San Luis Potosi	June 8-July 8		2	Present. Sept. 19. Present.
Do	July 2-Sept. 13	1	2	Sept. 19. Present.
Poland				87,910; deaths, 19,733.
Warsaw				Sept. 19. Present. Jah. 1-Mar. 31, 1920: Cases, 87,910; deaths, 19.733. Jan. 1-Feb. 29, 1920: Cases, 911; deaths, 117
				deaths, 117. Mar. 14-Apr 10, 1920: Cases, 181; deaths, 23.
Serbia				Mar. 14-Apr 10, 1920; Cases, 181;
Portugal:	Ane 4 Tune 24	15	6	deaths, 2s.
Oporto	Apr. 4-June 24 Aug. 1-Nov. 6	10	2	
Russia:		20		
Riga	June 25-Sept. 30	84		
Simferopol				JanJune, 1920: Cases, 3,955;
	Sept. 28	35	2	deaths, 500. Jan. 1-Apr. 30, 1920; Cases, 1,264;
Vima		22		Jan. 1 101, Oct, 1520, Carre, 1,204,
VinaVladivostok	May 1-21	9.0		deaths, 144.
Vima Vladivostok Do	May 1-21	36	4	deaths, 144.
VinaVladivostok	May 1-21. July 1-Aug 31 July 9-15. June 1-30.	36	1 1	deaths, 144.

Reports Received from June 26 to Dec. 3, 1920-Continued.

TYPHUS FEVER-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Tunis:				
Tunis Do	May 24-June 27 July 6-Aug. 31	36	18	
Turkey: Constantinople Do	May 16-June 12 June 19-Oct. 9	27 25		*
Union of South Africa: Port Elizabeth	Sept. 27-Oct. 2	1		
Venezuela: Maracaibo	July 21-27		. 1	
	YELLOW	FEVE	R.	
Brazil:	W 00 V 10			
Bahia Colombia:	May 23-June 19	1		
Buenaventura Guatemala	June 3	1	1	Oct. 25, 1920: Present.
Los Amates	Aug. 5-Sept. 1	10	3	Oct. 25, 1920: Present. Aug. 17: Present at several locali- ties.
Quirigua Virginia	Aug. 9-15	1		Present. Station on railway from Puerto Barrios to Guatemala City, 45 miles from Puerto Barrios.
Mexico:	0.1.11			
Culiacan Empalme	Oct.16	1	1	Present.
Guaymas	do		i	Previously reported, 2 deaths:
Progreso	Oct. 13	1	1	laterinformationshows 1 death.
Do		4	2	July 30-Aug. 18, 1920; Cases, 5; deaths, 3.
Puerto Mexico	Aug. 24-27	1	1	Case arrived Aug. 23 on s. s. Mel-
San Blas Tampico	Sept. 13 Sept. 17	1	******	chor Ocampo from Progreso.
Ďo	Sept. 21-Nov. 4	3	2	Sept. 10, 1920.
Tuxpam	Sept. 1		2	Aug. 26-Sept. 1, 1920: Cases, 5:
Vera Cruz Do	June 22	97	77	deaths, 5. Oct. 21-27, 1920: Cases, 27. Aug. 26-Oct. 27,
Yucatan State— Campeche	Oct. 13	1	1	chor Ocampo from Progreso. Previously reported P. H. R., Sept. 10, 1920. Aug. 26-Sept. 1, 1920: Cases, 5: deaths, 5. Oct. 21-27, 1920: Cases, 27. Aug. 26-Oct. 27, 1920: Cases, 112; deaths, 59. In sailor from s. s. Yumuri. Tho vessel left Vera Crus Oct. 1 for Campache and New Orleans
Hocoba	Sept. 8	8		Campeche and New Orleans. In interior.
Hunuema	Sept. 8-Oct. 11	2	1	Do.
Merida	Nov. 5	1		From Hunnema.
Peru	Sept. 8	1	1	In interior. Mar. 1-31, 1920: Cases, 228. Apr.
Callao	Apr. 1-30	1		Mar. 1-31, 1920: Cases, 228. Apr. 1-20, 1920: Cases, 64. At quarantine station. From
Catacaos	Mar. 1-31	14		s. s. Huallaga.
Do La Huaca	Apr. 1-30 Mar. 1-31	2 9	*******	
Do	Apr. 1-30	5		
Morropon	do	57		
Munuella	Mar. 1-31	12		
Paita Do	Apr. 1-30 Mar. 1-31	81	********	
Piura	Mar 1-31	1		
Do	Apr. 1-30	4		
Salitral	Apr. 1-30 Mar. 1-31	2		
Sullana	do	9	********	
Do	Apr. 1-30	1	********	
Salvador	June 20-26	1	*********	Sept. 12-18, 1920: 1 case. Aug. 22-
San Salvador	Aug. 1-21	6	1 0	Sept. 12-18, 1920: 1 case, Aug. 22- Oct. 11, 1920: Cases, 3; deaths, 1. Fatal cases were in Europeans.
Sonsonate	May 22-June 24	49	17	. and cases were in Laropeans.
On vessels: S. S. Curacao	Nov. 16	1	1	At San Francisco, Calif. From
C C Wareldstone	S			Mexican ports, 6 days out from Mazatlan.
S. S. Haraldshaug	Sept. 28	1		At Pensacola, Fla. From Puerto Barrios, Tampico, and Vera Cruz.
S. S. Soestdijk S. S. Yumuri	Sept. 11 Oct. 13	. 1	1	At Quarantine, La. At Campeche. Vessel left Vera Cruz Oct. 1, 1920.